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**Apache Cassandra Hands-on Training Level One CreateSpace** Written in a clear, step-by-step manner, this 400-page course provides an excellent starting point for people that want to get into Apache Cassandra and learn best by doing. A high-quality, project-based, hands-on training courseware book, **Apache Cassandra Hands-On Training Level One** is designed to be used as the student book for a 2-day introductory level Cassandra course delivered by a Cassandra instructor. Having said that, this book can also be done as a self-paced training course. Recommended prerequisites for this training book are experience with databases, SQL, and programming. This hands-on training book takes people through the basics of working with Cassandra as they learn how to install Cassandra, create a database, create tables, insert, update, and delete data, and create an application, as well as create and modify a multiple-node cluster. **Unit 1: Understanding What Cassandra is For Unit 2: Getting Started with the Architecture Unit 3: Installing Cassandra Unit 4: Communicating with Cassandra Unit 5: Creating a Database Unit 6: Creating a Table Unit 7: Inserting Data Unit 8: Modeling Data Unit 9: Creating an Application Unit 10: Updating and Deleting Data Unit 11: Selecting Hardware Unit 12: Adding Nodes to a Cluster Unit 13: Repairing Nodes Unit 14: Removing a Node Unit 15: Monitoring a Cluster Unit**

**16: Adding a Data Center** As virtual machine images are used extensively throughout this hands-on course, including for the creation of a multiple-node Cassandra cluster, any computer used for the exercises in this course needs to be relatively high spec. Specifically, a computer with the following is needed: 64-bit operating system (Mac, Windows, or Linux) 8GB (or more) of RAM 30GB (or more) of free hard drive space Latest version of VMware Player installed and working A way to unzip files Acrobat Reader (or equivalent, for viewing a PDF file) For the full outline, and class files download, see [ruthstryker.com/books/achotl1](http://ruthstryker.com/books/achotl1). For a sample unit, see [ruthstryker.com/books/achotl1/achotl1\\_ch06\\_20140717.pdf](http://ruthstryker.com/books/achotl1/achotl1_ch06_20140717.pdf) (Unit 6) or [ruthstryker.com/books/achotl1/achotl1\\_ch15\\_20140717.pdf](http://ruthstryker.com/books/achotl1/achotl1_ch15_20140717.pdf) (Unit 15). For the setup steps, see [ruthstryker.com/books/achotl1/achotl1\\_apC\\_20140722.pdf](http://ruthstryker.com/books/achotl1/achotl1_apC_20140722.pdf) (Appendix C). Student comments about the book: "Excellent starter course that has taken me from knowing nothing of Cassandra to feeling confident in setting up and using it." "Level covered in book is just right." "Course material was good. It had a wide range of labs and was very helpful in understanding the agenda." "Course material was well-written and easy to follow." "Excellent introduction into Cassandra filled with hands-on exercises for all topics." "Material covers the basics quite well." **Practical Cassandra A Developer's Approach** Pearson Education "Eric and Russell were early adopters of Cassandra at SimpleReach. In **Practical Cassandra**, you benefit from their experience in the trenches administering Cassandra, developing against it, and building one of the first CQL drivers. If you are deploying Cassandra soon, or you inherited a Cassandra cluster to tend, spend some time with the deployment, performance tuning, and maintenance chapters... If you are new to Cassandra, I highly recommend the chapters on data modeling and CQL." -From the Foreword by Jonathon Ellis, **Apache Cassandra Chair Build and Deploy Massively Scalable, Super-fast Data Management Applications with Apache Cassandra** **Practical Cassandra** is the first hands-on developer's guide to building Cassandra systems and applications that deliver breakthrough speed, scalability, reliability, and performance. Fully up to date, it reflects the latest versions of Cassandra-including Cassandra Query Language (CQL), which dramatically lowers the learning curve for Cassandra developers. Pioneering Cassandra developers and Datastax MVPs Russell Bradberry and Eric Lubow walk you through every step of building a real production application that can store enormous amounts of structured, semi-structured, and unstructured data. Drawing on their exceptional expertise, Bradberry and Lubow share practical insights into issues ranging from querying to deployment, management, maintenance, monitoring, and troubleshooting. The authors cover key issues, from architecture to migration, and guide you through crucial decisions about configuration and data modeling. They provide tested sample code, detailed explanations of how Cassandra works "under the covers," and new case studies from three cutting-edge users: Ooyala, Hailo, and eBay. Coverage

includes Understanding Cassandra's approach, architecture, key concepts, and primary use cases- and why it's so blazingly fast Getting Cassandra up and running on single nodes and large clusters Applying the new design patterns, philosophies, and features that make Cassandra such a powerful data store Leveraging CQL to simplify your transition from SQL-based RDBMSes Deploying and provisioning through the cloud or on bare-metal hardware Choosing the right configuration options for each type of workload Tweaking Cassandra to get maximum performance from your hardware, OS, and JVM Mastering Cassandra's essential tools for maintenance and monitoring Efficiently solving the most common problems with Cassandra deployment, operation, and application development Cassandra: The Definitive Guide Distributed Data at Web Scale "O'Reilly Media, Inc." Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This expanded second edition—updated for Cassandra 3.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's non-relational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data Maintain a high level of performance in your cluster Deploy Cassandra on site, in the Cloud, or with Docker Integrate Cassandra with Spark, Hadoop, Elasticsearch, Solr, and Lucene Lethal Blade McCormick is not a nice guy. He's pure adrenaline and smells like smoke and leather--the kind of guy you look at and know he's going to be a combination of nasty and irresistible. The moment I allowed myself to touch his hot skin and kiss his full lips, I. Was. Done. Like currency, I've become part of a transaction. Blade took me to pay off a debt. I try to tell myself, Eve, you should hate him. He's a bad guy. But then again, I'm not a good girl. Blade's the president of the Disciples, the notorious motorcycle club. I should be frightened, yet somehow, he doesn't scare me. If anything, I think I scare him. It takes a lot of work to become the club's Queen, but I'll stop at nothing to have the King! Clockwork Princess Simon and Schuster When seventeen-year-old orphaned shapechanger Tessa Gray is kidnapped by the villainous Mortmain in his final bid for power, the London Institute rallies to save her, but is beset by danger and betrayal at every turn. Agamemnon Graphic Arts Books From the perspective of the townspeople and the queen, Clytemnestra, Agamemnon follows the emotional journey of grief, rage, and revenge. Agamemnon had dedicated much of his life to a

war that his brother started. He vowed to do whatever it takes to win—committing war crimes and killing innocents. But, even in victory, Agamemnon feels unsatisfied and plagued by the bloodshed he caused. Because of this, he decides to perform a ritual to clear his conscience and regain the gods' approval. After he fought for ten years in the Trojan war, Clytemnestra eagerly awaited the return of her husband, King Agamemnon. However, upon his arrival, she learns that he has sacrificed one of her loved ones to the gods, in order to win their favor. Though Agamemnon expressed slight remorse, he felt resolute in his actions, as he viewed the sacrifice as a necessity. Already devastated, Clytemnestra is driven to pure rage when she finds that Agamemnon also brought back a "spoil of war", Cassandra, a Trojan princess and prophetess, who has been punished by the god Apollo for refusing his advances. Though she is able to see the future, she is cursed to be never believed. Considered as Agamemnon's war prize, Cassandra is trapped in the kingdom, especially hopeless when she receives a vision of unescapable doom. Meanwhile, as Clytemnestra settles in her grief and rage, she creates a plot for vengeance, and much like her husband at war, is unconcerned about any collateral damage. As the first installment of the sole surviving Greek trilogy, Agamemnon is both a stand-alone piece and a compliment to later plays. With symbolism and precise prose, Agamemnon by Aeschylus depicts the consequences of warfare—both abroad and domestic. Featuring strong, dynamic, and well-developed characters and an emotional, dramatic plot, Agamemnon is an enthralling perspective on the fates of famous heroes from Greek mythology. This edition of Aeschylus' acclaimed tragedy, Agamemnon features a new, eye-catching cover and is reprinted in a modern, readable font. With these accommodations, contemporary readers are encouraged to revisit this classic and enthralling tale of revenge. The Cassandra A Novel Henry Holt and Company The Cassandra follows a woman who goes to work in a top secret research facility during WWII, only to be tormented by visions of what the mission will mean for humankind. Mildred Groves is an unusual young woman. Gifted and cursed with the ability to see the future, Mildred runs away from home to take a secretary position at the Hanford Research Center in the early 1940s. Hanford, a massive construction camp on the banks of the Columbia River in remote South Central Washington, exists to test and manufacture a mysterious product that will aid the war effort. Only the top generals and scientists know that this product is processed plutonium, for use in the first atomic bombs. Mildred is delighted, at first, to be part of something larger than herself after a lifetime spent as an outsider. But her new life takes a dark turn when she starts to have prophetic dreams about what will become of humankind if the project is successful. As the men she works for come closer to achieving their goals, her visions intensify to a nightmarish pitch, and she eventually risks everything to question those in power, putting her own physical and mental health in jeopardy. Inspired by the classic Greek myth, this 20th century reimagining of Cassandra's story is based on a real WWII compound that the author

researched meticulously. A timely novel about patriarchy and militancy, *The Cassandra* uses both legend and history to look deep into man's capacity for destruction, and the resolve and compassion it takes to challenge the powerful. Queen of Air and Darkness Simon and Schuster Dark secrets and forbidden love threaten the very survival of the Shadowhunters in Cassandra Clare's *Queen of Air and Darkness*, the final novel in the *New York Times* and *USA TODAY* bestselling *The Dark Artifices* trilogy. *Queen of Air and Darkness* is a Shadowhunters novel. What if damnation is the price of true love? Innocent blood has been spilled on the steps of the Council Hall, the sacred stronghold of the Shadowhunters. Their society now teeters on the brink of civil war. One fragment of the Blackthorn family flees to Los Angeles, seeking to discover the source of the disease that is destroying the race of warlocks. Meanwhile, Julian and Emma take desperate measures to put their forbidden love aside and undertake a perilous mission to Faerie to retrieve the *Black Volume of the Dead*. What they find there is a secret that may tear the Shadow World asunder and open a dark path into a future they could never have imagined. Caught in a race against time, Emma and Julian must save the world of the Shadowhunters before a deadly curse destroys them and everyone they love. *The How & the Why* HarperCollins "Cynthia Hand is the master of pulling at your heartstrings. *The How & the Why* tells both sides of an adoption story with love, compassion, and care." —Brigid Kemmerer, *New York Times* bestselling author of *Letters to the Lost* A poignant exploration of family and the ties that bind, from *New York Times* bestselling author Cynthia Hand. Cassandra McMurtrey has the best parents a girl could ask for; they've given Cass a life she wouldn't trade for the world. She has everything she needs—but she has questions, too. Like, to know who she is. Where she came from. Questions her adoptive parents can't answer, no matter how much they love her. But eighteen years ago, someone wrote Cass a series of letters. And they may just hold the answers Cass has been searching for. Alternating between Cass's search for answers and letters from the pregnant teen who placed her for adoption, this emotionally resonant narrative is the perfect read for fans of Nina LaCour and Jandy Nelson. *Hammers on Bone* Tor.com Cassandra Khaw bursts onto the scene with *Hammers on Bone*, a hard-boiled horror show that Charles Stross calls "possibly the most promising horror debut of 2016." A finalist for the British Fantasy award and the Locus Award for Best Novella! *John Persons* is a private investigator with a distasteful job from an unlikely client. He's been hired by a ten-year-old to kill the kid's stepdad, McKinsey. The man in question is abusive, abrasive, and abominable. He's also a monster, which makes *Persons* the perfect thing to hunt him. Over the course of his ancient, arcane existence, he's hunted gods and demons, and broken them in his teeth. As *Persons* investigates the horrible McKinsey, he realizes that he carries something far darker. He's infected with an alien presence, and he's spreading that monstrosity far and wide. Luckily *Persons* is no stranger to the occult, being an ancient and magical intelligence himself. The question is whether the

private dick can take down the abusive stepdad without releasing the holds on his own horrifying potential. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. Chasing Cassandra The Ravenels HarperCollins ONE OF OPRAH MAG'S BEST ROMANCES OF 2020! Everything has a price . . . Railway magnate Tom Severin is wealthy and powerful enough to satisfy any desire as soon as it arises. Anything—or anyone—is his for the asking. It should be simple to find the perfect wife—and from his first glimpse of Lady Cassandra Ravenel, he's determined to have her. But the beautiful and quick-witted Cassandra is equally determined to marry for love—the one thing he can't give. Everything except her . . . Severin is the most compelling and attractive man Cassandra has ever met, even if his heart is frozen. But she has no interest in living in the fast-paced world of a ruthless man who always plays to win. When a newfound enemy nearly destroys Cassandra's reputation, Severin seizes the opportunity he's been waiting for. As always, he gets what he wants—or does he? There's one lesson Tom Severin has yet to learn from his new bride: Never underestimate a Ravenel. The chase for Cassandra's hand may be over. But the chase for her heart has only just begun . . . I Capture the Castle Deluxe Edition St. Martin's Griffin "Every time I meet someone who also loves I Capture the Castle, I know we must be kindred spirits." —from the new foreword by Jenny Han, the New York Times bestselling author of *To All the Boys I've Loved Before*. A beautiful, deluxe edition of Dodie Smith's beloved novel, *I Capture the Castle*, featuring a new foreword by New York Times bestselling author Jenny Han, a stunning new cover, and designed endpapers that is perfect for devoted readers and those discovering this timeless story for the first time. Seventeen-year-old Cassandra Mortmain and her family may live in a ramshackle old English castle, but that's about as romantic as her life gets. While her beautiful older sister, Rose, longs to live in a Jane Austen novel, Cassandra knows that meeting an eligible man to marry isn't in either of their futures when their home is crumbling and they have to sell their furniture for food. So Cassandra instead strives to hone her writing skills in her journals. Until one day when their new landlords move in, which include two (very handsome) sons, and the lives of the Mortmain sisters change forever. Through Cassandra's sharply funny, yet poignant, journal entries, she chronicles the great changes that take place within the castle's walls, and her own first descent into love. By the time she pens her final entry, she has "captured the castle" - and the heart of the reader - in one of literature's most enchanting novels. "This book has one of the most charismatic narrators I've ever met." —J.K. Rowling, bestselling author of the Harry Potter series *Divine Touched Createspace Independent Pub Harper, Sword Maiden for the illustrious Goddess of the Open Sea*, has returned to the fabled city of Griffon's Rock at the end of the Last Road to rest for the winter months after a disappointing year treasure hunting. Her rest is cut short by a mysterious storm of divine origin, an attempted horse theft of her beloved mount, and the sudden appearance of a beautiful southerner who

seems determined to capture Harper's heart. As the snows begin to fall, intrigue and romance heats up. The object of Harper's desire, the mysterious rogue Calista, appears destined to get everyone into fresh trouble with a mystical stew-brewing ogre, a greedy guild of Dwarven thieves, and finally an exalted march out of the snowy north bent on divine retribution. Harper must decide if her growing love for Calista is real or a product of the lies she's been told. Before the spring thaw, Harper will choose between the woman she loves and the Goddess that is the source of her magic.

**City of Heavenly Fire** Simon and Schuster "Darkness has descended on the Shadowhunter world. Chaos and destruction overwhelm the Nephilim as Clary, Jace, Simon, and their friends band together to fight the greatest evil they have ever faced: Clary's own brother. Nothing in this world can defeat Sebastian--but if they journey to the realm of demons, they just might have a chance.."--

**The Cassandra Project** Penguin Two science fiction masters—Jack McDevitt and Mike Resnick—team up to deliver a classic thriller in which one man uncovers the hidden history of the United States space program... "Houston, we have a problem..." Formerly a cynical, ambitious PR man, Jerry Culpepper finally found a client he could believe in when he was hired as NASA's public affairs director. Proud of the Agency's history and sure of its destiny, he was thrilled to be a part of its future. But public disinterest and budget cuts changed that future. Now, a half century after the first Moon landing, Jerry feels like the only one with stars in his eyes. Then a fifty-year-old secret about the Apollo XI mission is revealed, and he finds himself embroiled in the biggest controversy of the twenty-first century, one that will test his ability—and his willingness—to spin the truth about a conspiracy of reality-altering proportions...

**We Are Bridges** A Memoir Feminist Press at CUNY "In this evocative memoir, Cassandra Lane deftly uses the act of imagination to reclaim her ancestors' story as a backdrop for telling her own. The tradition of Black women's storytelling leaps forward within these pages—into fresh, daring, and excitingly new territory." —Bridgett M. Davis, author of *The World According to Fannie Davis*

When Cassandra Lane finds herself pregnant at thirty-five, the knowledge sends her on a poignant exploration of memory to prepare for her entry into motherhood. She moves between the twentieth-century rural South and present-day Los Angeles, reimagining the intimate life of her great-grandparents Mary Magdelene Magee and Burt Bridges, and Burt's lynching at the hands of vengeful white men in his southern town. *We Are Bridges* turns to creative nonfiction to reclaim a family history from violent erasure so that a mother can gift her child with an ancestral blueprint for their future. Haunting and poetic, this debut traces the strange fruit borne from the roots of personal loss in one Black family—and considers how to take back one's American story.

**Big Data Science & Analytics** A Hands-On Approach Vpt We are living in the dawn of what has been termed as the "Fourth Industrial Revolution," which is marked through the emergence of "cyber-physical systems" where software interfaces seamlessly over networks with physical systems, such as sensors, smartphones, vehicles,

power grids or buildings, to create a new world of Internet of Things (IoT). Data and information are fuel of this new age where powerful analytics algorithms burn this fuel to generate decisions that are expected to create a smarter and more efficient world for all of us to live in. This new area of technology has been defined as Big Data Science and Analytics, and the industrial and academic communities are realizing this as a competitive technology that can generate significant new wealth and opportunity. Big data is defined as collections of datasets whose volume, velocity or variety is so large that it is difficult to store, manage, process and analyze the data using traditional databases and data processing tools. Big data science and analytics deals with collection, storage, processing and analysis of massive-scale data. Industry surveys, by Gartner and e-Skills, for instance, predict that there will be over 2 million job openings for engineers and scientists trained in the area of data science and analytics alone, and that the job market in this area is growing at a 150 percent year-over-year growth rate. We have written this textbook, as part of our expanding "A Hands-On Approach"(TM) series, to meet this need at colleges and universities, and also for big data service providers who may be interested in offering a broader perspective of this emerging field to accompany their customer and developer training programs. The typical reader is expected to have completed a couple of courses in programming using traditional high-level languages at the college-level, and is either a senior or a beginning graduate student in one of the science, technology, engineering or mathematics (STEM) fields. An accompanying website for this book contains additional support for instruction and learning ([www.big-data-analytics-book.com](http://www.big-data-analytics-book.com)) The book is organized into three main parts, comprising a total of twelve chapters. Part I provides an introduction to big data, applications of big data, and big data science and analytics patterns and architectures. A novel data science and analytics application system design methodology is proposed and its realization through use of open-source big data frameworks is described. This methodology describes big data analytics applications as realization of the proposed Alpha, Beta, Gamma and Delta models, that comprise tools and frameworks for collecting and ingesting data from various sources into the big data analytics infrastructure, distributed filesystems and non-relational (NoSQL) databases for data storage, and processing frameworks for batch and real-time analytics. This new methodology forms the pedagogical foundation of this book. Part II introduces the reader to various tools and frameworks for big data analytics, and the architectural and programming aspects of these frameworks, with examples in Python. We describe Publish-Subscribe messaging frameworks (Kafka & Kinesis), Source-Sink connectors (Flume), Database Connectors (Sqoop), Messaging Queues (RabbitMQ, ZeroMQ, RestMQ, Amazon SQS) and custom REST, WebSocket and MQTT-based connectors. The reader is introduced to data storage, batch and real-time analysis, and interactive querying frameworks including HDFS, Hadoop, MapReduce, YARN, Pig, Oozie, Spark, Solr, HBase, Storm, Spark Streaming, Spark SQL, Hive, Amazon

Redshift and Google BigQuery. Also described are serving databases (MySQL, Amazon DynamoDB, Cassandra, MongoDB) and the Django Python web framework. Part III introduces the reader to various machine learning algorithms with examples using the Spark MLlib and H2O frameworks, and visualizations using frameworks such as Lightning, Pygal and Seaborn. Learning Apache Cassandra Packt Publishing Ltd If you're an application developer familiar with SQL databases such as MySQL or Postgres, and you want to explore distributed databases such as Cassandra, this is the perfect guide for you. Even if you've never worked with a distributed database before, Cassandra's intuitive programming interface coupled with the step-by-step examples in this book will have you building highly scalable persistence layers for your applications in no time. Lady Midnight Simon and Schuster "Shadowhunter Emma Carstairs and her parabatai Julian Blackthorn race to stop a demonic plot that threatens Los Angeles"-- Cassandra A Novel and Four Essays Macmillan A recreation of the myth of Cassandra, journeying to her foreseen death and reflecting on her own history, is accompanied by essays that touch on such diverse issues as nuclear war and the role of women, linking them to the interpretation of Cassandra Chain of Iron Simon and Schuster A #1 New York Times Bestseller! The Shadowhunters must catch a killer in Edwardian London in this dangerous and romantic sequel to the #1 New York Times bestselling novel Chain of Gold, from New York Times and USA TODAY bestselling author Cassandra Clare. Chain of Iron is a Shadowhunters novel. Cordelia Carstairs seems to have everything she ever wanted. She's engaged to marry James Herondale, the boy she has always loved; she has a new life in London with her best friend Lucie; and she bears the sword Cortana, a legendary hero's blade. But the truth is far grimmer. Cordelia's marriage is a lie, arranged to save her reputation, while James remains in love with the Grace Blackthorn. Cortana burns her when she touches it. And a serial murderer is targeting the Shadowhunters of London, killing under cover of darkness, then vanishing without a trace. Now Cordelia, James, and Lucie must follow the trail of the killer through the city's most dangerous streets. All the while, each is keeping a shocking secret: Lucie, that she is attempting to raise the dead; Cordelia, that she has sworn a dangerous oath of loyalty to a mysterious power; and James, that he himself may be the killer they seek. The Oresteian Trilogy Penguin UK Aeschylus (525-c.456 bc) set his great trilogy in the immediate aftermath of the Fall of Troy, when King Agamemnon returns to Argos, a victor in war. Agamemnon depicts the hero's discovery that his family has been destroyed by his wife's infidelity and ends with his death at her callous hand. Clytemnestra's crime is repaid in The Choephoroi when her outraged son Orestes kills both her and her lover. The Eumenides then follows Orestes as he is hounded to Athens by the Furies' law of vengeance and depicts Athene replacing the bloody cycle of revenge with a system of civil justice. Written in the years after the Battle of Marathon, The Oresteian Trilogy affirmed the deliverance of democratic Athens not only from Persian conquest, but

also from its own barbaric past. **The Plant Hunter A Scientist's Quest for Nature's Next Medicines Penguin A leading medical ethnobotanist tells us the story of her quest to develop new ways to fight illness and disease through the healing powers of plants in this uplifting and adventure-filled memoir. Plants are the basis for an array of lifesaving and health-improving medicines we all now take for granted. Ever taken an aspirin? Thank a willow tree for that. What about life-saving medicines for malaria? Some of those are derived from cinchona and wormwood. In today's world of synthetic pharmaceuticals, scientists and laypeople alike have lost this connection to the natural world. But by ignoring the potential of medicinal plants, we are losing out on the opportunity to discover new life-saving medicines needed in the fight against the greatest medical challenge of this century: the rise of the post-antibiotic era. Antibiotic-resistant microbes plague us all. Each year, 700,000 people die due to these untreatable infections; by 2050, 10 million annual deaths are expected unless we act now. No one understands this better than Dr. Cassandra Quave, whose groundbreaking research as a leading medical ethnobotanist--someone who identifies and studies plants that may be able to treat antimicrobial resistance and other threatening illnesses--is helping to provide clues for the next generation of advanced medicines. In *The Plant Hunter*, Dr. Quave weaves together science, botany, and memoir to tell us the extraordinary story of her own journey. Traveling by canoe, ATV, mule, airboat, and on foot, she has conducted field research in the flooded forests of the remote Amazon, the murky swamps of southern Florida, the rolling hills of central Italy, isolated mountaintops in Albania and Kosovo, and volcanic isles arising out of the Mediterranean—all in search of natural compounds, long-known to traditional healers, that could help save us all from the looming crisis of untreatable superbugs. And as a person born with multiple congenital defects of her skeletal system, she's done it all with just one leg. Filled with grit, tragedy, triumph, awe, and scientific discovery, her story illuminates how the path forward for medical discovery may be found in nature's oldest remedies.**

**Towards a Political Theory of the University Public reason, democracy and higher education Taylor & Francis Towards a Political Theory of the University argues that state and market forces threaten to diminish the legitimacy, authority and fundamental purposes of higher education systems. The political role of higher education has been insufficiently addressed by academics in recent decades. By applying Habermas' theory of communicative action, this book seeks to reconnect educational and political theory and provide an analysis of the university which complements the recent focus on the intersections between political philosophy and legal theory. In this book, White argues that there is considerable overlap between crises in democracy and in universities. Yet while crises in democracy are often attributed to the inability of political institutions to adapt to the pace of social and cultural change, this diagnosis wilfully ignores the effects of privatisation on public institutions. Under present political conditions, the university is regarded in instrumental and**

economic terms, which not only diminishes its functions of developing and sustaining culture but also removes its democratic capabilities. This book explores these issues in depth and presents some of the practical problems associated with turning an independent higher education system into a state-dominated and then, subsequently, marketised system. This book bridges political and educational theory in an original and comprehensive way and makes an important contribution to the debate over the role of the university in a democracy. As such, it will appeal to researchers, academics and postgraduate students in the fields of the philosophy of education, higher education, and political and educational theory. With its implications for policy and practice, it will also be of interest to policy makers.

Lord of Shadows Simon and Schuster Emma is torn between her passion for Julian and her need to protect him from the consequences of a forbidden romantic partnership, a situation challenged by her relationship with Mark and his efforts to regain his Shadowhunter capabilities.

Innovative Strategies for Teaching in the Plant Sciences Springer Science & Business Media Innovative Strategies for Teaching in the Plant Sciences focuses on innovative ways in which educators can enrich the plant science content being taught in universities and secondary schools. Drawing on contributions from scholars around the world, various methods of teaching plant science is demonstrated. Specifically, core concepts from ethnobotany can be used to foster the development of connections between students, their environment, and other cultures around the world. Furthermore, the volume presents different ways to incorporate local methods and technology into a hands-on approach to teaching and learning in the plant sciences. Written by leaders in the field, Innovative Strategies for Teaching in the Plant Sciences is a valuable resource for teachers and graduate students in the plant sciences.

The Alexandra of Lycophron A Literary Study Oxford University Press This monograph is a literary study of Lycophron's Alexandra, whose obscurity, a quality notorious already in antiquity, has long hampered holistic approaches. Through a series of distinct but closely integrated literary studies of major aspects of the poem, including its style, its engagement with the traditions of epic and tragedy, and its treatment of heroism and of the gods, the book explores the way the Alexandra reconfigures Greek mythology. In particular, as it is presented in Homeric epic and Athenian tragedy, in order to cast the Romans and their restoration of Trojan glory as the ultimate telos of history. In this sense, the poem emerges as an important intermediary between Homeric epic and Latin poetry, particularly Vergil's Aeneid. By rewriting specific features of the epic and tragic traditions, the Alexandra denies to Greek heroes the glory that was the traditional compensation for their suffering, while at the same time attributing to Cassandra's Trojan family honours framed in the traditional language of Greek heroism. In this sense, the figure of Cassandra, a prophetess traditionally gifted with the power of foresight but denied credibility, self-reflexively serves as a vehicle for exploring the potentials and limitations of poetry. Artificial intelligence and the

**future of warfare The USA, China, and strategic stability Manchester University Press This volume offers an innovative and counter-intuitive study of how and why artificial intelligence-infused weapon systems will affect the strategic stability between nuclear-armed states. Johnson demystifies the hype surrounding artificial intelligence (AI) in the context of nuclear weapons and, more broadly, future warfare. The book highlights the potential, multifaceted intersections of this and other disruptive technology - robotics and autonomy, cyber, drone swarming, big data analytics, and quantum communications - with nuclear stability. Anticipating and preparing for the consequences of the AI-empowered weapon systems are fast becoming a critical task for national security and statecraft. Johnson considers the impact of these trends on deterrence, military escalation, and strategic stability between nuclear-armed states - especially China and the United States. The book draws on a wealth of political and cognitive science, strategic studies, and technical analysis to shed light on the coalescence of developments in AI and other disruptive emerging technologies. Artificial intelligence and the future of warfare sketches a clear picture of the potential impact of AI on the digitized battlefield and broadens our understanding of critical questions for international affairs. AI will profoundly change how wars are fought, and how decision-makers think about nuclear deterrence, escalation management, and strategic stability - but not for the reasons you might think.**

**Reinforcement Learning, second edition An Introduction MIT Press The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.**

**Clockwork Angel Margaret K. McElderry Books The #1 New York Times and**

**USA TODAY bestseller is now available at an incredible low price for a limited time only! Discover the “compulsively readable” (Booklist) first book in the Infernal Devices trilogy, prequel to the internationally bestselling Mortal Instruments series! Clockwork Angel is a Shadowhunters novel. When Tessa Gray crosses the ocean to find her brother, her destination is England, the time is the reign of Queen Victoria, and something terrifying is waiting for her in London’s Downworld, where vampires, warlocks, and other supernatural folk stalk the gaslit streets. Only the Shadowhunters, warriors dedicated to ridding the world of demons, keep order amidst the chaos. Kidnapped by a secret organization called The Pandemonium Club, Tessa learns that she herself is a Downworlder with a rare ability: the power to transform into another person. What’s more, the Magister, the shadowy figure who runs the Club, will stop at nothing to claim Tessa’s power for his own. Friendless and hunted, Tessa takes refuge with the Shadowhunters of the London Institute, who swear to find her brother if she will use her power to help them. She soon finds herself fascinated by—and torn between—two best friends: James, whose fragile beauty hides a deadly secret, and Will, whose caustic wit and volatile moods keep everyone in his life at arm’s length...everyone, that is, but Tessa. As their search draws them deep into the heart of an arcane plot that threatens to destroy the Shadowhunters, Tessa realizes that she may need to choose between saving her brother and helping her new friends save the world...and that love may be the most dangerous magic of all. Odyssey The Iron Trial (Free Preview Edition) Scholastic Inc. Most kids would do anything to pass the Iron Trial. Not Callum Hunt. He wants to fail. All his life, Call has been warned by his father to stay away from magic. If he succeeds at the Iron Trial and is admitted into the Magisterium, he is sure it can only mean bad things for him. So he tries his best to do his worst - and fails at failing. Now the Magisterium awaits him. It's a place that's both sensational and sinister, with dark ties to his past and a twisty path to his future. The Iron Trial is just the beginning, for the biggest test is still to come . . . From the remarkable imaginations of bestselling authors Holly Black and Cassandra Clare comes a heart-stopping, mind-blowing, pulse-pounding plunge into the magical unknown. The Lost Book of the White Margaret K. McElderry Books From #1 New York Times bestselling authors Cassandra Clare and Wesley Chu comes the second book in the Eldest Curses series and a thrilling new adventure for High Warlock Magnus Bane and Alec Lightwood, for whom a death-defying mission into the heart of evil is not just a job, it’s also a romantic getaway. The Lost Book of the White is a Shadowhunters novel. Life is good for Magnus Bane and Alec Lightwood. They’re living together in a fabulous loft, their warlock son, Max, has started learning to walk, and the streets of New York are peaceful and quiet—as peaceful and quiet as they ever are, anyway. Until the night that two old acquaintances break into Magnus’s apartment and steal the powerful Book of the White. Now Magnus and Alec will have to drop everything to get it back. They need to follow the thieves to Shanghai, they need to call some backup to**

accompany them, and they need a babysitter. Also, someone has stabbed Magnus with a strange magical weapon and the wound is glowing, so they have that to worry about too. Fortunately, their backup consists of Clary, Jace, Isabelle, and newly minted Shadowhunter Simon. In Shanghai, they learn that a much darker threat awaits them. Magnus's magic is growing unstable, and if they can't stop the demons flooding into the city, they might have to follow them all the way back to the source—the realm of the dead. Can they stop the threat to the world? Will they make it back home before their kid completely wears out Alec's mom?

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**Hands-On Data Science and Python Machine Learning** Packt Publishing Ltd This book covers the fundamentals of machine learning with Python in a concise and dynamic manner. It covers data mining and large-scale machine learning using Apache Spark.

**About This Book** Take your first steps in the world of data science by understanding the tools and techniques of data analysis

**Train efficient Machine Learning models in Python** using the supervised and unsupervised learning methods

**Learn how to use Apache Spark for processing Big Data** efficiently

**Who This Book Is For** If you are a budding data scientist or a data analyst who wants to analyze and gain actionable insights from data using Python, this book is for you. Programmers with some experience in Python who want to enter the lucrative world of Data Science will also find this book to be very useful, but you don't need to be an expert Python coder or mathematician to get the most from this book.

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**Visualize the results of your analysis** using Python's Matplotlib library

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**Hands-On Data Science and Python Machine Learning** gives you the tools that you need to understand and explore the core topics in the field, and the confidence and practice to build and analyze your own machine learning models. With the help of interesting and easy-to-follow practical examples, Frank Kane explains potentially complex topics such as Bayesian methods and K-means clustering in a way that anybody can understand them. Based on Frank's successful data science course, **Hands-On Data Science and Python Machine Learning** empowers you to conduct data analysis and perform efficient machine learning using Python. Let Frank help you unearth the value in your data using the various data mining and data analysis techniques available in Python, and to develop efficient predictive models to predict future results. You will also learn how to perform large-scale machine

learning on Big Data using Apache Spark. The book covers preparing your data for analysis, training machine learning models, and visualizing the final data analysis. Style and approach This comprehensive book is a perfect blend of theory and hands-on code examples in Python which can be used for your reference at any time. Every Body Shines Sixteen Stories About Living Fabulously Fat Bloomsbury Publishing USA An intersectional, feminist YA anthology from some of today's most exciting voices across a span of genres, all celebrating body diversity and fat acceptance through short stories. Fat girls and boys and nonbinary teens are: friends who lift each other up, heroes who rescue themselves, big bodies in space, intellects taking up space, and bodies looking and feeling beautiful. They express themselves through fashion, sports and other physical pursuits, through food, and music, and art. They are flirting and falling in love. They are loving to themselves and one another. With stories that feature fat main characters starring in a multitude of settings, and written by authors who live these lives too, this is truly a unique collection that shows fat young people the representation they deserve. With a foreword by Aubrey Gordon, creator of Your Fat Friend, and with stories by: Nafiza Azad, Chris Baron, Sheena Boekweg, Linda Camacho, Kelly deVos, Alex Gino, Claire Kann, amanda lovelace, Hillary Monahan, Cassandra Newbould, Francina Simone, Rebecca Sky, Monique Gray Smith, Renée Watson, Catherine Adel West, Jennifer Yen Graceling Houghton Mifflin Harcourt In a world where some people are born with extreme and often-feared skills called Graces, Katsa struggles for redemption from her Grace of killing, and teams up with another young fighter to save their land from a corrupt king. The Morgesons You Let Me In Tor Books You Let Me In delivers a stunning tale from debut author Camilla Bruce, combining the sinister domestic atmosphere of Gillian Flynn's Sharp Objects with the otherworldly thrills of Neil Gaiman's The Ocean at the End of the Lane. Cassandra Tipp is dead...or is she? After all, the notorious recluse and eccentric bestselling novelist has always been prone to flights of fancy—everyone in town remembers the shocking events leading up to Cassie's infamous trial (she may have been acquitted, but the insanity defense only stretches so far). Cassandra Tipp has left behind no body—just her massive fortune, and one final manuscript. Then again, there are enough bodies in her past—her husband Tommy Tipp, whose mysterious disembowelment has never been solved, and a few years later, the shocking murder-suicide of her father and brother. Cassandra Tipp will tell you a story—but it will come with a terrible price. What really happened, out there in the woods—and who has Cassie been protecting all along? Read on, if you dare... At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. Nothing But Blackened Teeth Tor Nightfire A USA TODAY BESTSELLER! A Bram Stoker Award Nominee and World Fantasy Award Finalist! An August Derleth Award Nominee! An Indie Next and October LibraryReads Pick! 2022 RUSA Reading List: Horror Winner! A Most Anticipated Read on Goodreads, Tor.com, Crime Reads, BookRiot, The Nerd Daily, and more. Cassandra Khaw's Nothing

**But Blackened Teeth is a gorgeously creepy haunted house tale, steeped in Japanese folklore and full of devastating twists. A Heian-era mansion stands abandoned, its foundations resting on the bones of a bride and its walls packed with the remains of the girls sacrificed to keep her company. It's the perfect venue for a group of thrill-seeking friends, brought back together to celebrate a wedding. A night of food, drinks, and games quickly spirals into a nightmare as secrets get dragged out and relationships are tested. But the house has secrets too. Lurking in the shadows is the ghost bride with a black smile and a hungry heart. And she gets lonely down there in the dirt. Effortlessly turning the classic haunted house story on its head, Nothing but Blackened Teeth is a sharp and devastating exploration of grief, the parasitic nature of relationships, and the consequences of our actions. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.**