

# BJ Dela Cruz, CISSP/CCSP/CSSLP/CCSK

Master of Science, Computer Science, GPA 4.00 / 4.00, University of Hawaii at Manoa, May 2011

Bachelor of Science, Computer Science, GPA 3.85 / 4.00, University of Hawaii at Manoa, December 2008

[E-mail](#) | [LinkedIn](#) | [Website](#) | [Blog](#)

[Bitbucket](#) | [Coderbyte](#) | [Codesignal](#) | [Codewars](#) | [GitHub](#) | [Gists](#) | [LeetCode](#) | Pluralsight: ([Individual](#) | [Team](#)) | [Stack Overflow](#)

## Background

Customer-centric servant leader with 10+ years of industry experience in applying secure software development best practices. Skilled in gathering functional and non-functional requirements from stakeholders as well as prioritizing tasks for multiple projects. Expert at reducing technical debt through code refactoring, remediating security vulnerabilities, and resolving application performance issues. Main interests include cloud computing, cybersecurity, generative AI, and developing applications for mobile devices and the web.

## Professional Experiences

*Solutions Architect, Bureau of the Fiscal Service, Puyallup, Washington.*

January 19, 2025 – Present

**Information and Security Services (ISS), Business Applications and Solutions Division.**

**Series: 2210 | Pay Schedule: GS | Grade: 14 | Step: 1 | Weekly Hours: 40**

### ◆ Accomplishments:

- ✓ Coordinated the deployment of Google reCAPTCHA to all forms in [Web Feedback](#)

*Lead IT Specialist (APPSW), Bureau of the Fiscal Service, Parkersburg, West Virginia.*

July 4, 2021 – January 18, 2025

**Information and Security Services (ISS), Business Applications and Solutions Division, Software Development Branch 3.**

**Series: 2210 | Pay Schedule: GS | Grade: 13 | Step: 4 | Weekly Hours: 40**

### ◆ Technologies: [Angular](#), [Bamboo](#), [Confluence](#), [Git](#), [Gradle](#), [IntelliJ IDEA](#), [Java](#), [Jira](#), [Microsoft Azure](#), [Spring Boot](#)

### ◆ Accomplishments:

- ✓ Guided a team of developers to build, test, and deploy [Treasury Hunt®](#) to an App Service instance in Microsoft Azure
- ✓ Coordinated the integration of [Common Approach to Identity Assurance](#) for two internal web applications
- ✓ Transferred terabytes of retired bond images in TIFF format from IBM Db2 to Microsoft Azure Blob Storage
- ✓ Coordinated application deployments to proactively patch against vulnerabilities such as Log4Shell and Spring4Shell
- ✓ Acquired licenses for [IBM ADDI](#), which assists developers with discovering dependencies in applications running on z/OS®
- ✓ Coordinated the implementation of security controls to restrict access to sensitive data (PII) in Microsoft Azure Blob Storage
- ✓ Oversaw the development of search functions for securities in a proof-of-concept Spring Boot web application
- ✓ Conducted lunch and learn sessions as well as live training to upskill developers and assist them in their career growth
- ✓ Coordinated the reconfiguration of on-premises network appliances with the Enhanced Network Services (ENS) team to:
  - 🔧 Reduce packet loss on the network path from internal end users' devices to an on-premises Spring Boot web application
  - 🔧 Forward only legitimate external web traffic to a Spring Boot web application that is hosted in Microsoft Azure
  - 🔧 Prevent external directory traversal attacks from reaching a cloud-hosted, public-facing Spring Boot web application
- ✓ Created a Standard Operating Procedure (SOP) for:
  - 📄 Deploying cloud resources to Microsoft Azure using bicep scripts ([13.0.6.335](#))
  - 📄 BASD Azure Cloud Space (BACS) team members to acquire time-bound elevated privileges in Microsoft Azure ([13.0.6.336](#))

### ◆ Recognitions:

- 🏆 Overall rating of Outstanding for calendar years 2021, 2022, 2023, and 2024<sup>1</sup>
- 🏆 Recipient of the following awards from ISS leadership for calendar year 2022:
  - ★ [Breakthrough Player](#): An individual who has worked for 5 years or less and made a positive impact in the bureau
  - ★ [Customer Centric MVP](#): A flexible, responsive, service-minded individual who recognizes the urgency of ISS's mission
- 🏆 Received cash awards for the following achievements:
  - ★ September 8, 2024: Provided outstanding support for Government Securities Regulations Staff's [large position report call](#)
  - ★ July 17, 2022: Built a DevSecOps pipeline for new web applications that will be deployed to Microsoft Azure
  - ★ July 17, 2022: Coordinated remediation efforts for many Spring web applications

*IT Specialist (APPSW), Bureau of the Fiscal Service, Parkersburg, West Virginia.*

October 27, 2019 – July 3, 2021

**Information and Security Services (ISS), Business Applications and Solutions Division, Software Development Branch 2.**

**Series: 2210 | Pay Schedule: GS | Grade: 12 | Step: 3 | Weekly Hours: 40**

### ◆ Technologies: [Angular](#), [Bamboo](#), [Confluence](#), [Git](#), [Gradle](#), [IntelliJ IDEA](#), [Java](#), [Jira](#), [Spring Boot](#), [Struts](#)

### ◆ Accomplishments:

- 📄 Created an SOP that establishes a new code review process for BASD development teams ([13.0.4.17](#))

### ◆ Recognitions:

- 🏆 Received a cash award on April 12, 2021 for exceeding the turn-around time for bug fixes for a legacy Struts web application
- 🏆 Awarded a quality step increase (QSI) to step 3, effective March 14, 2021

<sup>1</sup>Copy of appraisal with final summary rating for each calendar year available upon request

*Java Developer, NIC Hawaii*, Honolulu, Hawaii. September 3, 2015 – May 16, 2016 | October 24, 2016 – October 4, 2019  
Developed Spring web applications for State of Hawaii government agencies: [Special Use Permits](#), [HMOAB Online Certification](#), [Mauna Kea Recreation Area Permits](#), [Payment Platform](#), [Solar Water Heater Variance Request](#), [Special Invoice Payment System](#).  
**Technologies:** [Confluence](#), [Git](#), [Gradle](#), [Java](#), [Jira Software](#), [Spring](#)

*Java Web Developer, University of Hawaii*, Honolulu, Hawaii. March 24, 2014 – May 2015  
Established an issue-tracking and documentation process for a course management and collaboration system called [Laulima](#) and coordinated the upgrade process for the system with database and system administrators.

*Software Engineer, Referentia Systems Incorporated*, Honolulu, Hawaii. August 8, 2011 – December 2013  
Created reports and dashboards in the [LiveAction](#) product that display device, interface, and protocol data, and added support for configuring quality of service (QoS) on Cisco devices. **Technologies:** [Java](#), [Swing API](#)

*Level III Intern, Maui High Performance Computing Center*, Kihei, Hawaii. June 1, 2010 – July 31, 2010  
During two-month internship, wrote C programs that can be used to benchmark high performance computing systems: [source code](#)

### Active Certifications

|      |                                                                                    |                                              |
|------|------------------------------------------------------------------------------------|----------------------------------------------|
| [38] | <a href="#">App Development with Swift Certified User</a>                          | July 9, 2025 – July 9, 2030                  |
| [37] | <a href="#">CertNexus Cyber Secure Coder (CSC)</a>                                 | June 27, 2025 – June 27, 2028                |
| [36] | <a href="#">Palo Alto Networks Certified Cybersecurity Practitioner</a>            | June 11, 2025 – June 11, 2027                |
| [35] | <a href="#">Certified Argo Project Associate</a>                                   | February 27, 2025 – February 28, 2027        |
| [34] | <a href="#">Palo Alto Networks Certified Cybersecurity Apprentice</a>              | February 2, 2025 – June 11, 2027             |
| [33] | <a href="#">FinOps Certified Practitioner</a>                                      | January 26, 2025 – January 26, 2027          |
| [32] | <a href="#">Certified Associate in Software Testing (CAST)</a>                     | December 7, 2024 – December 7, 2027          |
| [31] | <a href="#">Tencent Cloud Practitioner</a>                                         | October 9, 2024 – October 9, 2026            |
| [30] | <a href="#">HashiCorp Certified: Terraform Associate (003)</a>                     | October 4, 2024 – October 4, 2026            |
|      | <a href="#">HashiCorp Certified: Terraform Associate (002)</a>                     | <b>November 26, 2022 – November 25, 2024</b> |
| [29] | <a href="#">Alibaba Cloud Certified Associate Cloud Computing</a>                  | September 20, 2024 – September 20, 2026      |
| [28] | <a href="#">Oracle Cloud Infrastructure 2024 Certified Foundations Associate</a>   | September 8, 2024 – September 8, 2026        |
| [27] | <a href="#">Prometheus Certified Associate</a>                                     | August 10, 2024 – August 11, 2026            |
| [26] | <a href="#">Oracle Cloud Infrastructure 2024 Generative AI Professional</a>        | July 11, 2024 – July 11, 2026                |
| [25] | <a href="#">CompTIA Network+ ce</a>                                                | May 31, 2024 – May 25, 2029                  |
| [24] | <a href="#">Kubernetes and Cloud Native Security Associate</a>                     | March 31, 2024 – April 1, 2027               |
| [23] | <a href="#">CompTIA DataSys+ ce</a>                                                | February 29, 2024 – February 28, 2030        |
| [22] | <a href="#">Kubernetes and Cloud Native Associate</a>                              | February 11, 2024 – February 11, 2027        |
| [21] | <a href="#">Splunk Core Certified Power User</a>                                   | July 20, 2023 – July 20, 2026                |
| [20] | <a href="#">Splunk Core Certified User</a>                                         | July 13, 2023 – July 20, 2026                |
| [19] | <a href="#">IASSC® Certified Lean Six Sigma Yellow Belt™</a>                       | May 19, 2023 – May 19, 2026                  |
| [18] | <a href="#">Google Cloud Certified – Cloud Digital Leader</a>                      | April 3, 2023 – April 3, 2026                |
| [17] | <a href="#">AWS Certified Developer – Associate (DVA-C01)</a>                      | February 22, 2023 – February 22, 2026        |
| [16] | <a href="#">CIW Web Foundations Associate (1D0-610)</a>                            | December 30, 2022 – October 1, 2027          |
| [15] | <a href="#">Linux Foundation Certified IT Associate (LFCA)</a>                     | December 30, 2022 – December 30, 2025        |
| [14] | <a href="#">CIW Advanced HTML5 &amp; CSS3 Specialist (1D0-720)</a>                 | December 26, 2022 – October 1, 2027          |
| [13] | <a href="#">CompTIA Data+ ce</a>                                                   | October 21, 2022 – October 21, 2028          |
| [12] | <a href="#">AWS Certified Cloud Professional (CLF-C01)</a>                         | September 23, 2022 – February 22, 2026       |
| [11] | <a href="#">(ISC)² Certified in Cybersecurity (CC)</a>                             | September 2, 2022 – September 30, 2025       |
| [10] | <a href="#">(ISC)² Systems Security Certified Practitioner (SSCP)</a>              | August 1, 2021 – July 31, 2027               |
| [9]  | <a href="#">CompTIA PenTest+ ce</a>                                                | November 5, 2020 – May 25, 2029              |
| [8]  | <a href="#">CompTIA Cybersecurity Analyst (CySA+) ce</a>                           | August 12, 2020 – May 25, 2029               |
| [7]  | <a href="#">(ISC)² Certified Cloud Security Professional (CCSP)</a>                | September 16, 2019 – September 30, 2025      |
| [6]  | <a href="#">(ISC)² Certified Information Systems Security Professional (CISSP)</a> | March 26, 2019 – March 31, 2027              |
| [5]  | <a href="#">LPIC-1 Certification</a>                                               | September 8, 2018 – August 14, 2028          |
| [4]  | <a href="#">(ISC)² Certified Secure Software Lifecycle Professional (CSSLP)</a>    | April 25, 2018 – December 31, 2026           |
| [3]  | <a href="#">CompTIA SecurityX ce</a>                                               | May 25, 2017 – May 25, 2029                  |
| [2]  | <a href="#">CompTIA Cloud+ ce</a>                                                  | August 20, 2015 – August 20, 2030            |
| [1]  | <a href="#">CompTIA Security+ ce</a>                                               | July 27, 2015 – May 25, 2029                 |

<sup>2</sup>Copy of appraisal with final summary rating for IT Specialist (APPSW) position available upon request

## Lifetime Certifications

|       |                                                                                     |                   |
|-------|-------------------------------------------------------------------------------------|-------------------|
| [100] | Software Development Skills Foundation (C#)                                         | July 12, 2025     |
| [99]  | Cisco Certified Support Technician IT Support – Lifetime                            | July 11, 2025     |
| [98]  | [JSA-41-01] JSA – Certified Associate JavaScript Programmer                         | June 11, 2025     |
| [97]  | IBM Certified Advocate – Cloud v2                                                   | June 10, 2025     |
| [96]  | IBM Certified Technical Advocate – Cloud v5                                         | June 10, 2025     |
| [95]  | [PCET-30-01] PCET™ – Certified Entry-Level Tester with Python                       | May 19, 2025      |
| [94]  | Oracle APEX Cloud Developer Certified Professional                                  | May 12, 2025      |
| [93]  | SC107: Pattern Matching with Regular Expressions                                    | April 25, 2025    |
| [92]  | SC101: Open Data Formats YAML                                                       | April 21, 2025    |
| [91]  | [PCED-30-01] PCED™ – Certified Entry-Level Data Analyst with Python                 | April 13, 2025    |
| [90]  | CompTIA IT Fundamentals (ITF+)                                                      | March 31, 2025    |
| [89]  | CompTIA Tech+                                                                       | March 31, 2025    |
| [88]  | Critical Career Skills – Generative AI Foundations                                  | January 16, 2025  |
| [87]  | SC102: Source Control Management with Git                                           | January 9, 2025   |
| [86]  | Software Development Skills Foundation (Python)                                     | December 7, 2024  |
| [85]  | Software DevSkills JavaScript Foundation                                            | November 24, 2024 |
| [84]  | Software Development Skills Essentials – Intro to Web Programming                   | November 23, 2024 |
| [83]  | Certified Junior JavaScript Developer                                               | October 28, 2024  |
| [82]  | Open Source Essentials Certificate                                                  | October 27, 2024  |
| [81]  | IT Specialist – HTML5 Application Development                                       | October 17, 2024  |
| [80]  | Software Development Skills Foundation (Java)                                       | October 17, 2024  |
| [79]  | Certificate of Cloud Security Knowledge (CCSK) v5                                   | September 7, 2024 |
| [78]  | IT Specialist – HTML and CSS                                                        | September 2, 2024 |
| [77]  | IT Specialist – JavaScript                                                          | August 21, 2024   |
| [76]  | IT Specialist – Python                                                              | August 21, 2024   |
| [75]  | [WDE-40-01] WDE™ – Certified Entry-Level Web Developer                              | August 21, 2024   |
| [74]  | IT Specialist – Software Development                                                | July 25, 2024     |
| [73]  | Cisco Certified Support Technician Cybersecurity – Lifetime                         | July 4, 2024      |
| [72]  | IT Specialist – Databases                                                           | July 4, 2024      |
| [71]  | Cisco Certified Support Technician Networking – Lifetime                            | June 22, 2024     |
| [70]  | IT Specialist – Networking                                                          | June 22, 2024     |
| [69]  | IT Specialist – Network Security                                                    | April 5, 2024     |
| [68]  | IT Specialist – Cloud Computing                                                     | April 4, 2024     |
| [67]  | IT Specialist – Cybersecurity                                                       | March 31, 2024    |
| [66]  | IT Specialist – Java                                                                | March 31, 2024    |
| [65]  | Microsoft Office Specialist: PowerPoint Associate (Microsoft 365 Apps)              | December 29, 2023 |
| [64]  | Microsoft Office Specialist: Excel Expert (Microsoft 365 Apps)                      | December 12, 2023 |
| [63]  | Microsoft Office Specialist: Expert (Microsoft 365 Apps)                            | December 12, 2023 |
| [62]  | Microsoft Office Specialist: Word Expert (Microsoft 365 Apps)                       | December 12, 2023 |
| [61]  | Microsoft Office Specialist: Associate (Microsoft 365 Apps)                         | December 1, 2023  |
| [60]  | Microsoft Office Specialist: Excel Associate (Microsoft 365 Apps)                   | December 1, 2023  |
| [59]  | Microsoft Office Specialist: Word Associate (Microsoft 365 Apps)                    | December 1, 2023  |
| [58]  | Arcitura Certified Cybersecurity Specialist                                         | June 29, 2023     |
| [57]  | Security Essentials Certificate                                                     | April 21, 2023    |
| [56]  | Microsoft Office Specialist: Microsoft Word Expert (Office 2019)                    | April 15, 2023    |
| [55]  | Microsoft Office Specialist: Expert (Office 2019)                                   | March 31, 2023    |
| [54]  | Microsoft Office Specialist: Microsoft Access Expert (Office 2019)                  | March 31, 2023    |
| [53]  | Microsoft Office Specialist: Microsoft Excel Expert (Office 2019)                   | March 31, 2023    |
| [52]  | Microsoft Office Specialist: Word Associate (Office 2019)                           | February 2, 2023  |
| [51]  | Microsoft Office Specialist: Associate (Office 2019)                                | January 27, 2023  |
| [50]  | Microsoft Office Specialist: Outlook Associate (Office 2019)                        | January 27, 2023  |
| [49]  | Microsoft Office Specialist: PowerPoint Associate (Office 2019)                     | January 20, 2023  |
| [48]  | Microsoft Office Specialist: Excel Associate (Office 2019)                          | January 13, 2023  |
| [47]  | CIW Web Security Professional (1D0-671)                                             | December 20, 2022 |
| [46]  | Web Development Essentials Certificate                                              | December 13, 2022 |
| [45]  | International Institute of Business Analysis™ Certificate in Cybersecurity Analysis | December 12, 2022 |

|      |                                                                                    |                    |
|------|------------------------------------------------------------------------------------|--------------------|
| [44] | Linux Essentials Certificate                                                       | November 4, 2022   |
| [43] | CompTIA Cloud Essentials+                                                          | October 27, 2022   |
| [42] | Android ATC Android Certified Trainer (AND-400)                                    | September 9, 2022  |
| [41] | Lean Six Sigma Black Belt Certification (The Council for Six Sigma Certification)  | September 8, 2022  |
| [40] | Android ATC Android Certified Application Engineer (AND-802   AND-803)             | July 15, 2022      |
| [39] | Android ATC Android Certified Application Developer (AND-X01)                      | July 1, 2022       |
| [38] | Oracle Certified Foundations Associate, Database                                   | June 20, 2022      |
| [37] | Java Certified Foundations Associate                                               | May 24, 2022       |
| [36] | Oracle Certified Professional: Java SE 17 Developer                                | May 24, 2022       |
| [35] | Spring Certified Professional 2022 (EDU-1202)                                      | May 20, 2022       |
| [34] | [CPA-21-02] CPA – C++ Certified Associate Programmer                               | May 6, 2022        |
| [33] | Lean Six Sigma Green Belt Certification (The Council for Six Sigma Certification)  | April 22, 2022     |
| [32] | [CLA-11-03] CLA – C Certified Associate Programmer                                 | March 31, 2022     |
| [31] | Lean Six Sigma Yellow Belt Certification (The Council for Six Sigma Certification) | March 31, 2022     |
| [30] | IASSC® Certified Lean Practitioner™                                                | March 31, 2022     |
| [29] | Lean Six Sigma White Belt Certification (The Council for Six Sigma Certification)  | February 19, 2022  |
| [28] | Microsoft Certified: Power Platform Fundamentals                                   | February 2, 2022   |
| [27] | [CPE-20-01] CPE – C++ Certified Entry-Level Programmer                             | December 30, 2021  |
| [26] | [CLE-10-01] CLE – C Certified Entry-Level Programmer                               | December 17, 2021  |
| [25] | EXIN Secure Programming Foundation                                                 | December 11, 2021  |
| [24] | [JSE-40-01] JSE – Certified Entry-Level JavaScript Programmer                      | December 4, 2021   |
| [23] | Microsoft Certified: Security, Compliance, and Identity Fundamentals               | December 3, 2021   |
| [22] | Microsoft 365 Certified: Fundamentals                                              | November 11, 2021  |
| [21] | Microsoft Certified: Azure AI Fundamentals                                         | November 11, 2021  |
| [20] | Microsoft Certified: Azure Data Fundamentals                                       | October 8, 2021    |
| [19] | ISTQB® Certified Tester Foundation Level (CTFL)                                    | August 28, 2021    |
| [18] | [PCAP-31-03] PCAP™ – Certified Associate in Python Programming                     | December 6, 2020   |
| [17] | Microsoft Certified: Azure Fundamentals                                            | November 23, 2020  |
| [16] | CompTIA Project+                                                                   | September 21, 2020 |
| [15] | Android ATC Flutter Certified Application Developer (AFD-200)                      | July 11, 2020      |
| [14] | Oracle Certified Professional, Java EE 7 Application Developer                     | June 6, 2020       |
| [13] | Oracle Certified Professional: Java SE 11 Developer                                | June 29, 2019      |
| [12] | CompTIA Linux+ Powered by LPI                                                      | September 8, 2018  |
| [11] | Certificate of Cloud Security Knowledge (CCSK) v4                                  | June 5, 2018       |
| [10] | Oracle Certified Expert, Java EE 6 Java Persistence API Developer                  | May 24, 2018       |
| [9]  | CompTIA Server+                                                                    | November 22, 2017  |
| [8]  | Arcitura Certified Cloud Professional                                              | June 23, 2017      |
| [7]  | CompTIA Mobility+                                                                  | January 4, 2016    |
| [6]  | CompTIA Storage+ Powered by SNIA                                                   | September 30, 2015 |
| [5]  | Android ATC Android Certified Application Developer (AND-401)                      | September 26, 2015 |
| [4]  | Oracle Certified Professional, Java SE 8 Programmer                                | August 10, 2015    |
| [3]  | Oracle Certified Professional, Java SE 7 Programmer                                | November 8, 2012   |
| [2]  | Oracle Certified Master, Java SE 6 Developer                                       | October 19, 2012   |
| [1]  | Oracle Certified Professional, Java SE 6 Programmer                                | May 24, 2012       |

## Contributions

*Zero Trust Training (ZTT) Contributor*, **Cloud Security Alliance**. November 13, 2023  
Contributed 30 hours to review over 100 exam items purposed for the Certificate of Competence in Zero Trust (CCZT).  
 **CCZT Contributors**  **Exam Item Reviewer**  **Credly Badge**

*Participant*, **2<sup>nd</sup> Hawaii Annual Code Challenge**, Honolulu, Hawaii. August 2017 – September 2017  
Developed a Spring web application for the Office of Hawaiian Affairs (OHA) that exports grant data to [Hawaii Open Data](#) and displays the data in charts and a filterable table: [source code](#)

*Book Reviewer*, **Packt Publishing**.

|     |                                                                                    |               |
|-----|------------------------------------------------------------------------------------|---------------|
| [3] | <a href="#">Mastering Android Application Development</a> , ISBN 978-1-78588-422-1 | October 2015  |
| [2] | <a href="#">Learning Android Application Testing</a> , ISBN 978-1-78439-533-9      | March 2015    |
| [1] | <a href="#">Gradle in Action</a> , ISBN 978-1-61729-130-2                          | February 2014 |



**Android**

- [Easter Calculator](#) calculates the date of Easter Sunday for a given year: [source code](#) | [library](#)
- [Sum of Primes](#) generates lists of consecutive prime numbers that sum to a positive integer: [source code](#)
- [Tic-Tac-Toe](#) is a game in which two players take turns marking spaces in a square grid with Xs and Os. The first player to successfully place marks across an entire diagonal, horizontal, or vertical row wins: [source code](#) | [library](#)

**C#**

- [EmporaHR](#) is a command-line interface (CLI) application for managing employees. It is cross-platform and uses a flat-file database that is stored in the user's home directory. Unit and integration tests are written using the xUnit framework: [coverage report](#)

**Cloud Computing**

- [Airplane Spotter](#) leverages Azure AI Custom Vision to classify aircraft in images as a Boeing 787 or an Airbus A350: [source code](#)
- [Airport Destinations](#) queries Oracle REST Data Services (ORDS) and then maps destinations served by selected airports. An AWS Lambda function queries an [API](#) for flight schedules twice daily and then updates the database in Oracle APEX: [source code](#)
- [Brew & Review](#) queries an instance of an Oracle Autonomous Database for coffee sales data and then uses [D3.js](#) to display the data in a bar chart, pie chart, and line chart. [Vibe coding](#) on [bolt.new](#) was used to develop the frontend user interface: [source code](#)
- [Chamorro Dictionary Admin Console](#) is a Java CLI application that can be configured to use Azure SQL or Amazon DynamoDB as the backend database. Resources are deployed to AWS and Microsoft Azure using Terraform.
- [Gridle](#) is a clone of the original [Wordle](#) game. A player has six chances to guess the correct five-letter word: [source code](#)
- [Oracle Autonomous Database Example](#) demonstrates how to connect to an Oracle Autonomous Database (ADB) instance using mutual Transport Layer Security (mTLS) authentication from a Java CLI application and a Python-based AWS Lambda function.
- [Serverless Applications](#) is a collection of Python code that can be deployed to multiple cloud service providers using Terraform.
- [Calculator](#) is a basic calculator that was developed using HTML, CSS, and TypeScript. It is deployed to an Amazon S3 bucket as a static website using Terraform. A Makefile is included and can be used to build a Docker image with Apache httpd: [source code](#)

**Java**

- [Advent of Code](#) is an annual collection of Christmas-themed code challenges that follow an Advent calendar. The solutions for 2024 are written in Java.
- [Blackjack](#) is a JavaFX desktop game that uses the Spring Framework for dependency injection and TestFX for integration testing.
- [Chamorro Dictionary](#) ([source code](#)) is a Spring Boot web application that fetches information about Chamorro words from an [API](#) ([source code](#)) that was developed using Spring Data JPA and Spring Data REST.
- [Chamorro Language Reference](#) is a Swing desktop application in which a user can lookup and modify Chamorro words that are stored in an H2 database. MigLayout is used to lay out all the user interface (UI) components, including a searchable table.
- [dev-bjdelacruz-commons](#) is a library that contains custom Swing UI components and utility classes.
- [Flight Display](#) is a JavaFX desktop application that displays information about flights arriving into or departing from an airport on a board similar to a [flight information display system](#). Flight schedules for airports are fetched from the [AirLabs Data API](#).
- [Hex Editor](#) is a JavaFX desktop application that allows a user to change bits in a file up to a maximum size of 2.14 gigabytes, the highest value that a 32-bit signed integer can represent. The user can also view a file's hash values and also insert bytes ([demo](#)).
- [JLPT Word List](#) is a Swing desktop application that retrieves information about Japanese words from a local SQLite database or a remote server on which the database resides.
- [OCMJD Bodgitt & Scarper](#) is a Swing desktop application that was developed in 2012 as part of the requirements to fulfill the [Oracle Certified Master Java SE 6 Developer](#) certification. The application was upgraded in June 2024 to use Java 22 and JUnit 5.
- [Primes API](#) ([source code](#)) is a Spring Boot web application that generates prime numbers for web clients. The bundled mini-game demonstrates how to use the API. The mini-game was developed using Tailwind CSS and pure JavaScript.
- [UdeMail](#) is a JavaFX desktop email client that uses the Jakarta Mail API and allows a user to view emails, download attachments, send emails with attachments, and add multiple accounts. The Spring Framework is used for dependency injection.
- [Wordle](#) is a JavaFX desktop game in which a player has six attempts to guess a five-letter word. Virtual threads are used to retrieve words, definitions, and parts of speech from [WordsAPI](#). The Spring Framework is used for dependency injection.

**Low Code (Oracle APEX)**

- [Chamorro Dictionary](#) is a public-facing web application that was built simply by uploading a CSV file containing Chamorro words along with corresponding English meanings. User authentication was added so that administrators can add, modify, or remove entries.

**Python (Flask)**

- [Password Checker](#) is a tool that ethical hackers can use to validate whether a computed MD5 or SHA256 hash of a password they acquired has been leaked. It uses the [rockyou.txt](#) wordlist and wordlists from [CrackStation](#): [source code](#)
- [Weather Now!](#) leverages an [API](#) from OpenWeather to fetch the latest weather data for a geographic location and the GPT-4o model from [OpenAI](#) to generate a fun response to the user: [source code](#)

**Python (Qt 6)**

- [File Search](#) is a lightweight desktop application that allows users to search for text content in Excel, Word, HTML, PDF, and text files. The [pdfplumber](#) library is used to extract text from PDF files.
- [S3 Encrypter/Decrypter](#) allows users to encrypt their files using symmetric-key algorithms such as AES before uploading them to an Amazon S3 bucket that they control. They can also download and decrypt encrypted files that they uploaded from the application.

**Unity**

- [Super Sparty Bros.](#) is a fun 2D platform game that can be played in a web browser: [source code](#)

## Katas

A kata (かた) is a small coding exercise or challenge that is designed to help software developers improve their skills.

|              |    |            |     |        |     |            |       |
|--------------|----|------------|-----|--------|-----|------------|-------|
| C / C++      | 8  | Groovy     | 14  | Julia  | 48  | Rust       | 26    |
| CoffeeScript | 70 | Haskell    | 8   | Kotlin | 12  | Scala      | 10    |
| Dart         | 20 | Java       | 103 | Python | 704 | Swift      | 20    |
| Go           | 10 | JavaScript | 288 | Ruby   | 62  | TypeScript | 54    |
| Total        |    |            |     |        |     |            | 1,457 |

## Community Service

Holy Rosary Leader, **St. Francis Xavier Catholic Church**, Parkersburg, West Virginia.

July 2020 – July 2023

Leading the congregation in praying the mysteries of the Holy Rosary half an hour before Sunday Mass once a month.

## Training

### A Cloud Guru: 13 Courses

|                                                      |                   |
|------------------------------------------------------|-------------------|
| YAML Essentials                                      | April 16, 2025    |
| Regular Expressions for the Cloud Engineer Deep Dive | April 15, 2025    |
| Introduction to Azure Virtual Desktop                | January 31, 2025  |
| FinOps Foundations                                   | January 25, 2025  |
| Cloud Security Fundamentals                          | January 3, 2025   |
| Secure Your App with Azure App Service Environment   | January 3, 2025   |
| Introduction to JavaScript                           | November 22, 2024 |
| Generative AI Foundations for Cloud                  | November 9, 2024  |
| Hands-On Introduction to Azure Files                 | November 4, 2024  |
| Intro to Serverless on Azure                         | October 30, 2024  |
| Serverless Concepts                                  | October 29, 2024  |
| Optimizing Azure Functions for Performance and Cost  | October 28, 2024  |
| Serverless Security Principles                       | October 27, 2024  |

### Coursera: 25 courses

|                                                                                                                 |                    |
|-----------------------------------------------------------------------------------------------------------------|--------------------|
| Mastering Cloud FinOps, <i>Board Infinity</i> .                                                                 | February 7, 2025   |
| Cloud FinOps Strategies, <i>Board Infinity</i> .                                                                | January 28, 2025   |
| Fundamentals of Cloud FinOps, <i>Board Infinity</i> .                                                           | January 26, 2025   |
| Introduction to Artificial Intelligence (AI), <i>IBM</i> .                                                      | January 1, 2025    |
| Generative AI and LLMs: Architecture and Data Preparation, <i>IBM</i> .                                         | December 27, 2024  |
| Tencent Cloud Practitioner, <i>Tencent Cloud</i> .                                                              | September 28, 2024 |
| App Design and Development for iOS, <i>University of Toronto</i> .                                              | November 14, 2020  |
| iOS App Development Basics, <i>University of Toronto</i> .                                                      | November 14, 2020  |
| Introduction to Swift Programming, <i>University of Toronto</i> .                                               | November 14, 2020  |
| Business of Games and Entrepreneurship, <i>Michigan State University</i> .                                      | December 18, 2016  |
| Game Development for Modern Platforms, <i>Michigan State University</i> .                                       | December 15, 2016  |
| Principles of Game Design, <i>Michigan State University</i> .                                                   | November 13, 2016  |
| Introduction to Game Development, <i>Michigan State University</i> .                                            | August 18, 2016    |
| Front-End JavaScript Frameworks: AngularJS, <i>The Hong Kong University of Science and Technology (HKUST)</i> . | July 28, 2016      |
| Server-side Development with NodeJS, <i>HKUST</i> .                                                             | July 6, 2016       |
| HTML, CSS, and JavaScript, <i>HKUST</i> .                                                                       | July 5, 2016       |
| Front-End Web UI Frameworks and Tools, <i>HKUST</i> .                                                           | July 4, 2016       |
| Multiplatform Mobile App Development with Web Technologies, <i>HKUST</i> .                                      | July 3, 2016       |
| Cryptography, <i>University of Maryland, College Park</i> .                                                     | December 29, 2015  |
| Hardware Security, <i>University of Maryland, College Park</i> .                                                | December 29, 2015  |
| Software Security, <i>University of Maryland, College Park</i> .                                                | November 21, 2015  |
| Usable Security, <i>University of Maryland, College Park</i> .                                                  | November 21, 2015  |
| Programming Mobile Applications for Android Handheld Systems, <i>University of Maryland, College Park</i> .     | April 29, 2014     |
| Programming Cloud Services for Android Handheld Systems, <i>Vanderbilt University</i> .                         | September 30, 2014 |
| Programming Mobile Services for Android Handheld Systems, <i>Vanderbilt University</i> .                        | July 29, 2014      |

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|--------------------------------------------------------------|-------------------|
| Swift Design Patterns masterclass                            | July 4, 2025      |
| How to Avoid Writing Insecure Code                           | June 22, 2025     |
| Password Cracking: Brute Forcing                             | June 18, 2025     |
| Principles of Secure Coding                                  | June 18, 2025     |
| Cisco Certified Support Technician (CCST) IT Support         | June 17, 2025     |
| Swift 5 Programming For Beginners                            | June 16, 2025     |
| Swift 4.0 Programming & Certification                        | June 13, 2025     |
| Improving data quality in data analytics & machine learning  | June 9, 2025      |
| Image Processing with Python PIL                             | June 8, 2025      |
| 11 JavaScript Features Critical to Understand                | June 7, 2025      |
| JavaScript Prototypes, Inheritance & Objects – 2025          | June 5, 2025      |
| Technology for Airlines: a Fresh Look at the Ecosystem       | June 2, 2025      |
| Ultimate JavaScript Objects                                  | May 31, 2025      |
| Ultimate Linux File Protection                               | May 31, 2025      |
| Cyber Security: Linux Audit                                  | May 30, 2025      |
| Javascript Interview Questions with answers                  | May 30, 2025      |
| Create a GUI with Python                                     | May 28, 2025      |
| IBM Cloud Advocate v2 Certification Crash Course             | May 26, 2025      |
| Python Desktop Apps with Tkinter                             | May 26, 2025      |
| PyQt Desktop Apps with Python                                | May 24, 2025      |
| Python Performance Optimization                              | May 22, 2025      |
| Hackers Toolkit                                              | May 20, 2025      |
| Network Protocols & Ethical Hacking                          | May 20, 2025      |
| Email Security                                               | May 12, 2025      |
| Ethical Hacking: Crypto 101                                  | May 4, 2025       |
| Cyber Security: Anti-Virus                                   | May 3, 2025       |
| Ethical Hacking: Reverse Shells                              | May 2, 2025       |
| Ethical Hacking: Password Cracking with Python               | May 1, 2025       |
| Accelerated Regular Expressions Training – Regex             | April 26, 2025    |
| Cyber Security: Secure Passwords on Linux                    | April 24, 2025    |
| Regular Expressions for Beginners – Universal                | April 23, 2025    |
| Cyber Security: Intermediate Linux Commands                  | April 20, 2025    |
| YAML in a Day: A Beginner's Guide                            | April 19, 2025    |
| Communicate Effectively with Data Visualization              | April 5, 2025     |
| Ethical Hacking: Offensive Security                          | March 31, 2025    |
| Ethical Hacking: Vulnerability Research                      | March 31, 2025    |
| TOTAL: CompTIA Tech+ (FC0-U71)                               | March 27, 2025    |
| Redis Database Tutorial                                      | March 23, 2025    |
| Build RESTful Services in Oracle APEX                        | March 17, 2025    |
| Cloud Computing for Beginners – Infrastructure as a Service  | March 12, 2025    |
| HELM – Package Manager for Kubernetes Complete Master Course | March 11, 2025    |
| Ethical Hacking: Hack Android                                | March 9, 2025     |
| Ethical Hacking: nmap in depth                               | March 8, 2025     |
| Cyber Kill Chain                                             | March 7, 2025     |
| Ethical Hacking: Pentesting Tools                            | March 7, 2025     |
| Mastering Argo Rollouts: Progressive Delivery in Kubernetes  | March 2, 2025     |
| Linux Security Basics for Beginners                          | March 1, 2025     |
| Secure your Linux VPS                                        | March 1, 2025     |
| Hospitality Masterclass: Luxury Food & Beverage Service      | February 26, 2025 |
| Argo Workflows: The Complete Practical Guide: Unlock DevOps  | February 22, 2025 |
| Argo CD Master Course: Expert Techniques in GitOps & DevOps  | February 19, 2025 |
| Aviation Security Threats                                    | February 17, 2025 |
| Ethical Hacking: Eternalblue                                 | February 15, 2025 |
| Ethical Hacking: Linux Intrusion Essentials                  | February 15, 2025 |
| How to Identify and Combat Spam and Phishing Emails          | February 15, 2025 |
| Ethical Hacking: Introduction to Exploits                    | February 14, 2025 |
| Flask Hacking Mastery                                        | February 14, 2025 |
| Setup Ubuntu Server                                          | February 13, 2025 |
| Cyber Security: Common Attacks                               | February 12, 2025 |
| Threat Intelligence                                          | February 10, 2025 |
| Cyber Security: Master osquery                               | February 9, 2025  |

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|--------------------------------------------------------------|--------------------|
| Android Malware Analysis                                     | February 9, 2025   |
| Ethical Hacking: Hacking with Python                         | February 7, 2025   |
| Ethical Hacking: SQL Injection for Beginners                 | February 6, 2025   |
| Ethical Hacking: Password Cracking                           | February 5, 2025   |
| FinOps Certified Practitioner: Complete Training for Success | February 5, 2025   |
| Ethical Hacking: John the Ripper                             | February 1, 2025   |
| Ethical Hacking: Network Attacks                             | February 1, 2025   |
| Python Hacking: Create Backdoor                              | February 1, 2025   |
| Mastering FinOps – Practitioner Certification + FREE BOOK    | January 24, 2025   |
| Ethical Hacking: Post-Exploitation                           | January 21, 2025   |
| Ethical Hacking: AI Chatbots                                 | January 17, 2025   |
| GenAI Cybersecurity Solutions                                | January 17, 2025   |
| Ethical Hacking: Hacker Methodology                          | January 3, 2025    |
| Ethical Hacking: Windows Exploitation Basics                 | December 17, 2024  |
| Cyber Security: Phishing                                     | December 16, 2024  |
| Ethical Hacking: Web App Hacking                             | December 16, 2024  |
| Ethical Hacking: Command Injection                           | December 15, 2024  |
| Ethical Hacking: File Inclusion                              | December 15, 2024  |
| Hack Windows                                                 | December 15, 2024  |
| Ethical Hacking: Weaponization                               | December 13, 2024  |
| Hack-Proof Banking: Defend Against Credit Card Threats!      | December 13, 2024  |
| How Websites Work                                            | November 30, 2024  |
| Windows Networking                                           | November 29, 2024  |
| Hack Network PCs                                             | November 28, 2024  |
| Ethical Hacking: Hack by Uploading                           | November 27, 2024  |
| Ethical Hacking: Web Enumeration                             | November 26, 2024  |
| Javascript Practicals Crash Course                           | November 17, 2024  |
| Asynchronous Javascript from A to Z                          | November 16, 2024  |
| The Complete LPI Open Source Essentials Exam Study Guide     | October 19, 2024   |
| Css Positioning For Absolute Beginners: A Basic Introduction | October 16, 2024   |
| Mastering JavaScript: OOP, Ajax, APIs, JSON, and Beyond      | October 15, 2024   |
| Responsive CSS: Flexbox and Grid                             | October 15, 2024   |
| CSS Layout Techniques                                        | October 12, 2024   |
| Build Modern Web Layouts With CSS Flexbox                    | October 10, 2024   |
| Terraform – From Zero to Certified Professional              | September 24, 2024 |
| Alibaba Cloud: From Zero to Hero – The Complete Guide        | September 14, 2024 |
| Certificate of Cloud Security Knowledge (CCSK) V4            | September 5, 2024  |
| Cybersecurity Habits Masterclass                             | August 10, 2024    |
| The Ultimate Prometheus Course [2024]                        | August 9, 2024     |
| Secure Programming of Web Applications – Developers and TPMs | August 7, 2024     |
| Cybersecurity Case Studies: Stuxnet, WannaCry, and Pegasus   | August 4, 2024     |
| OWASP TOP 10: Cross-site scripting (XSS) ~2023               | August 4, 2024     |
| [2023] Spring security OAuth 2.0 and social login in 1 hour  | August 2, 2024     |
| Practical introduction to Observability                      | August 2, 2024     |
| Phishing Attacks & Defense                                   | July 31, 2024      |
| OSINT: Romance Scams                                         | July 28, 2024      |
| Prometheus Alerting and Monitoring                           | July 23, 2024      |
| Prometheus   The Complete Hands-On for Monitoring & Alerting | July 20, 2024      |
| Secure Software Design Secure Software Series Course 3 of 8  | July 13, 2024      |
| Secure Software Implementation Series Secure Course 4 of 8   | July 12, 2024      |
| Advanced NLP Techniques: LoRA for Fine-Tuning Llama3 LLMs    | July 10, 2024      |
| Build Autonomous AI Agents From Scratch With Python          | July 10, 2024      |
| AI Security Bootcamp: Hack LLMs like a Pro                   | July 9, 2024       |
| LangChain 101 for Beginners (OpenAI / ChatGPT / LLMops)      | July 9, 2024       |
| Intro to Large Language Models (LLMs)                        | July 8, 2024       |
| LangChain Crash Course: Build OpenAI LLM powered Apps        | July 8, 2024       |
| Working with Binary Data in Python 3                         | June 24, 2024      |
| Subnetting for Cisco CCNA CCNP Certification Exams           | June 18, 2024      |
| Introduction To Fiber Optic Cabling                          | June 17, 2024      |
| Cisco – TCP/IP & OSI Network Architecture Models             | June 16, 2024      |
| Mastering IPv6 Networking with Amazon VPC: From A to Z       | June 15, 2024      |
| Essentials of IP Addressing (IPv4)                           | June 14, 2024      |
| IP Subnet Math in under 15 Seconds without Calculator!       | June 12, 2024      |



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|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Overview of Basic Networking Concepts – for Beginners                                                                                        | June 11, 2024     |
| Data Center Infrastructure Design – An Introduction                                                                                          | June 9, 2024      |
| Essentials of Physical Network Connectivity                                                                                                  | June 8, 2024      |
| IP Networks for the Absolute Beginners – Part 3 – NAT                                                                                        | May 26, 2024      |
| Behind The Scenes for Network Engineers                                                                                                      | May 24, 2024      |
| Networking Fundamentals: Build a solid foundation                                                                                            | May 22, 2024      |
| 60-Minute Kotlin Quick Tips for Java Developers                                                                                              | May 11, 2024      |
| Subnetting Made Easy                                                                                                                         | May 10, 2024      |
| Subnetting IPv4 The Easy Way                                                                                                                 | May 9, 2024       |
| Learn the Fundamentals of Networking                                                                                                         | May 8, 2024       |
| Mastering the Concepts of OSI Model                                                                                                          | May 7, 2024       |
| IT Networking Fundamentals – Packet Switching                                                                                                | May 6, 2024       |
| Airport Lounge Management & Cabin Crew Management 2.0                                                                                        | April 18, 2024    |
| Software Architecture Security – The Complete Guide                                                                                          | April 17, 2024    |
| Airline Strategy: How to run an airline                                                                                                      | April 16, 2024    |
| The “BigTech” System Design Interview Bootcamp                                                                                               | March 26, 2024    |
| Java Microservices: CQRS & Event Sourcing with Kafka                                                                                         | March 23, 2024    |
| Mastering the System Design Interview                                                                                                        | March 23, 2024    |
| Secure Software Requirements Secure Dev Series Course 2 of 8                                                                                 | February 6, 2024  |
| YAML Zero to Master                                                                                                                          | January 15, 2024  |
| YAML Fundamentals Complete Course                                                                                                            | January 6, 2024   |
| Hilt Dependency Injection in Android with Kotlin 2023                                                                                        | January 1, 2024   |
| C# OOP: A Beginner’s Guide to Object-Oriented Programming                                                                                    | December 31, 2023 |
| Introduction to Containers – 90 Minute Crash Course                                                                                          | December 30, 2023 |
| Lunch-n-Learn Series: Azure VM Scale Sets                                                                                                    | December 29, 2023 |
| Digital Forensics and Electronic Evidence                                                                                                    | December 28, 2023 |
| Learn TDD in Java                                                                                                                            | December 28, 2023 |
| Certified Vulnerability Assessor (CVA)                                                                                                       | December 22, 2023 |
| Kubernetes for the Absolute Beginners – Hands-on                                                                                             | December 22, 2023 |
|  Udemy Labs – Online Kubernetes Lab for Beginners – Hands On | December 18, 2023 |
| Lambda Expressions in Kotlin                                                                                                                 | December 17, 2023 |
| CompTIA Security+: Viruses, Threats and Compromise Indicators                                                                                | December 12, 2023 |
| MO-201 Complete Techniques – Microsoft Excel 2019 Expert                                                                                     | December 11, 2023 |
| MO-200 Excel Associate Practice Tests and Video Solutions                                                                                    | November 30, 2023 |
| PIPL 101 – China’s Personal Information Protection Law                                                                                       | November 30, 2023 |
| MO-100 Word 2019/365 Associate Certification Preparation                                                                                     | November 27, 2023 |
| Advanced Java programming with JavaFx: Write an email client                                                                                 | November 25, 2023 |
| Introduction to Systems Programming in C                                                                                                     | November 22, 2023 |
| Splunk Fundamentals 2 Training   Splunk Training for Splunk                                                                                  | July 18, 2023     |
| Splunk: Zero to Power User                                                                                                                   | July 9, 2023      |
| TOTAL: Conversation on Cryptography: w/ Mike Meyers                                                                                          | June 4, 2023      |
| Build Undetectable Malware Using C Language: Ethical Hacking                                                                                 | May 29, 2023      |
| Securing Amazon EC2 Instances: AWS Elastic Compute Cloud                                                                                     | May 29, 2023      |
| AWS Security Groups and Network ACLs                                                                                                         | May 28, 2023      |
| Lean Six Sigma – Yellow Belt (IASSC Accreditation)                                                                                           | May 17, 2023      |
| Measurement System Analysis (MSA) for Quality / Operations                                                                                   | May 14, 2023      |
| FMEA Training   FMEA Specialist Certification (Accredited)                                                                                   | May 13, 2023      |
| Cost of Poor Quality (COPQ) Management for Excellence                                                                                        | May 1, 2023       |
| 5S System Lean Manufacturing Expert Online Course                                                                                            | April 29, 2023    |
| Eliminate waste by implementing 5S                                                                                                           | April 26, 2023    |
| The Complete LPI Security Essentials Exam Study Guide                                                                                        | April 17, 2023    |
| Certified Lean Specialist   Lean Management (Accredited)                                                                                     | April 9, 2023     |
| Helping Employees Embrace Change                                                                                                             | April 8, 2023     |
| Lean Management   Certified Lean Expert (Accredited)                                                                                         | April 8, 2023     |
| Microsoft Word 2019 Expert Exam (MO-101)                                                                                                     | April 7, 2023     |
| MO-201 MOS Expert Excel 2019 exam                                                                                                            | March 25, 2023    |
| Microsoft Word 2019 (MO 100) Study Guide to 1000 points                                                                                      | February 1, 2023  |
| Outlook 2019 MO 400 Exam Preparation                                                                                                         | January 27, 2023  |
| PowerPoint 2019 (MO 300) Exam                                                                                                                | January 19, 2023  |
| MO-200 Microsoft Excel 365/2019 Associate Certification                                                                                      | January 15, 2023  |
| Live Hard: From Smart Risks to Innovation, to Success                                                                                        | January 14, 2023  |
| Creating Personal Success                                                                                                                    | January 1, 2023   |
| Show Your Ink: Embracing Authentic Leadership                                                                                                | January 1, 2023   |

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|--------------------------------------------------------------|--------------------|
| DB2 For Beginners                                            | November 25, 2022  |
| SQL Server Essentials in an hour: The SELECT statement       | November 22, 2022  |
| HashiCorp Certified: Terraform Associate – Hands-On Labs     | November 20, 2022  |
| Lean Six Sigma: Toolkit                                      | June 11, 2022      |
| Six Sigma Yellow Belt Certification Training                 | June 7, 2022       |
| Certified Lean Six Sigma Yellow Belt                         | June 1, 2022       |
| Spring Professional Certification Exam Tutorial – Module 08  | May 9, 2022        |
| Spring Professional Certification Exam Tutorial – Module 07  | May 8, 2022        |
| Spring Professional Certification Exam Tutorial – Module 06  | May 7, 2022        |
| Spring Professional Certification Exam Tutorial – Module 05  | May 2, 2022        |
| Spring Professional Certification Exam Tutorial – Module 04  | April 30, 2022     |
| Spring Professional Certification Exam Tutorial – Module 03  | April 28, 2022     |
| Spring Professional Certification Exam Tutorial – Module 02  | April 25, 2022     |
| Spring Professional Certification Exam Tutorial – Module 01  | April 24, 2022     |
| Lean Manufacturing A-Z: Lean Operations Management           | March 26, 2022     |
| Certified Lean Six Sigma White/Lean Six Sigma Yellow Belt    | March 5, 2022      |
| Six Sigma: Certified Lean Six Sigma White Belt (Accredited)  | February 19, 2022  |
| Power BI Masterclass from Scratch in 90 minutes [2022]       | January 30, 2022   |
| Certified Six Sigma White Belt                               | January 8, 2022    |
| Functional Programming using C++                             | December 30, 2021  |
| MS-900 Exam Prep: Microsoft 365 Fundamentals Course          | November 6, 2021   |
| AI-900 Azure AI Fundamentals Exam Prep In One Day – Jan 2021 | October 23, 2021   |
| DP-900: Microsoft Azure Data Fundamentals Video Course + Qus | September 19, 2021 |

#### KodeKloud: 1 course

|                                      |                |
|--------------------------------------|----------------|
| Prometheus Certified Associate (PCA) | August 6, 2024 |
|--------------------------------------|----------------|

#### The Linux Foundation: 5 courses

|                                                            |                   |
|------------------------------------------------------------|-------------------|
| LFS244: Managing Kubernetes Applications with Helm         | March 9, 2025     |
| LFS256: DevOps and Workflow Management with Argo           | February 9, 2025  |
| LFS241: Monitoring Systems and Services with Prometheus    | July 28, 2024     |
| LFS200: Fundamentals of Open Source IT and Cloud Computing | December 15, 2023 |
| LFS250: Kubernetes and Cloud Native Essentials             | December 9, 2023  |

#### LinkedIn Learning: 1,142 courses

|                                                                                         |               |
|-----------------------------------------------------------------------------------------|---------------|
| Building Your First iOS 17 App                                                          | July 16, 2025 |
| JavaScript: Patterns                                                                    | July 15, 2025 |
| JavaScript: Ajax and Fetch                                                              | July 14, 2025 |
| Inventory Management Foundations                                                        | July 13, 2025 |
| Flask Essential Training (2019)                                                         | July 12, 2025 |
| Advanced C#: Language Features                                                          | July 11, 2025 |
| Getting Started with SQL Server Ledger                                                  | July 11, 2025 |
| HR Errors That Can Harm Your Company Culture                                            | July 11, 2025 |
| Object-Oriented Programming with C#                                                     | July 11, 2025 |
| Threat Hunting Essential Training                                                       | July 10, 2025 |
| Asynchronous Programming in C#                                                          | July 9, 2025  |
| C# Exception and Error Handling                                                         | July 9, 2025  |
| Ten Tips for the C# Developer                                                           | July 8, 2025  |
| Threading in C#                                                                         | July 8, 2025  |
| Advanced C#: Thread-Safe Data with Concurrent Collections                               | July 7, 2025  |
| C# Cross-Platform Development                                                           | July 6, 2025  |
| Preparing for the EU AI Act: A Conversation with Jon Adams                              | July 6, 2025  |
| Swift 6 Essential Training                                                              | July 6, 2025  |
| Operational Technology (OT) Cybersecurity Essentials: Defending Critical Infrastructure | July 5, 2025  |
| C# Unit Testing with xUnit                                                              | July 4, 2025  |
| C#: Advanced Practices                                                                  | July 3, 2025  |
| C#: Delegates, Events, and Lambdas                                                      | July 3, 2025  |
| Characteristics of a Great Scrum Master                                                 | July 3, 2025  |
| Advanced C#: Object-Oriented Programming                                                | July 2, 2025  |
| C#: Interfaces and Generics                                                             | July 1, 2025  |

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|--------------------------------------------------------------------------------------------------------|----------------|
| How to Create Executive-Level Data Visualizations                                                      | June 1, 2025   |
| Ten Habits of Great Decision Makers                                                                    | May 31, 2025   |
| Introduction to NoSQL                                                                                  | May 30, 2025   |
| SQL vs. NoSQL: Which Database Type Is Right for You?                                                   | May 30, 2025   |
| Software Testing Foundations: Continuous Testing and DevOps                                            | May 29, 2025   |
| Excel: Modeling for Beginners                                                                          | May 28, 2025   |
| Excel: Filtering Data for Beginners                                                                    | May 27, 2025   |
| Excel: PivotTables for Beginners                                                                       | May 26, 2025   |
| Excel: Power Query for Beginners                                                                       | May 25, 2025   |
| Cyber Supply Chain Risk Management: Designing, Deploying, and Maintaining Secure Supply Chain Programs | May 24, 2025   |
| Vibe Code Your Way to a Full Stack App with Bolt                                                       | May 23, 2025   |
| Office Scripts In Excel: Automating Tasks                                                              | May 22, 2025   |
| Excel: Power Pivot for Beginners                                                                       | May 21, 2025   |
| Access Basics for Excel Users                                                                          | May 20, 2025   |
| Excel: Conditional Formatting for Beginners                                                            | May 19, 2025   |
| Excel: FILTER Function for Beginners                                                                   | May 18, 2025   |
| Excel: VLOOKUP and XLOOKUP for Beginners                                                               | May 17, 2025   |
| Five Hard Conversations You'll Have in Your Career                                                     | May 16, 2025   |
| Cybersecurity Awareness: Malware                                                                       | May 15, 2025   |
| Cybersecurity Awareness: AI                                                                            | May 14, 2025   |
| How to Get Started on Tasks You're Avoiding                                                            | May 13, 2025   |
| Staying Strong in the Face of Career Setbacks                                                          | May 12, 2025   |
| How to Manage Your Manager                                                                             | May 11, 2025   |
| How to Say No without Guilt                                                                            | May 11, 2025   |
| Becoming More Memorable and Persuasive                                                                 | May 10, 2025   |
| Windows 11 AI: Leveraging the Bundled Apps                                                             | May 9, 2025    |
| How to Speak with Effortless Confidence                                                                | May 8, 2025    |
| Turning Customer Complaints into Wins                                                                  | May 8, 2025    |
| How to Give and Receive Useful Feedback Every Month                                                    | May 7, 2025    |
| How to Save Your Career without Quitting                                                               | May 6, 2025    |
| How to Get Stuff Done Inside Bureaucracies                                                             | May 5, 2025    |
| Vibe Coding Fundamentals: Tools and Best Practices                                                     | May 4, 2025    |
| Node.js: Securing RESTful APIs                                                                         | May 3, 2025    |
| The Cost of Ignoring Employee Feedback                                                                 | May 2, 2025    |
| UX Foundations: Analyzing User Data                                                                    | May 1, 2025    |
| Five Ways to Improve Your Insider Threat Program                                                       | April 20, 2025 |
| Python Practice: Real-World Coding Challenges                                                          | April 1, 2025  |
| Compliance and Regulations for Generative AI                                                           | March 31, 2025 |
| Video Without Cameras: Text-to-Video Tools and Trends                                                  | March 31, 2025 |
| Evaluating and Selecting the Best Cybersecurity Tool for Your Organization                             | March 30, 2025 |
| What to Do When Your Boss Isn't Advocating for You                                                     | March 30, 2025 |
| Applying the Azure Well-Architected Framework                                                          | March 29, 2025 |
| SSL Certificates for Web Developers                                                                    | March 28, 2025 |
| Google Cloud: Controlling Cost                                                                         | March 27, 2025 |
| CompTIA Security+ (SY0-701) Cert Prep: 5 Security Program Management and Oversight                     | March 26, 2025 |
| Designing a Google Cloud Landing Zone                                                                  | March 25, 2025 |
| Designing an AWS Landing Zone                                                                          | March 25, 2025 |
| Azure Developer Associate (AZ-204) Cert Prep: Implementing VMs and Batch Jobs                          | March 24, 2025 |
| Learning Alibaba Cloud                                                                                 | March 23, 2025 |
| Spring: Spring Data 2 (2017)                                                                           | March 22, 2025 |
| CISSP Cert Prep (2021): 1 Security and Risk Management                                                 | March 21, 2025 |
| Prometheus Essential Training                                                                          | March 20, 2025 |
| CompTIA Security+ (SY0-501) Cert Prep: 4 Identity and Access Management                                | March 19, 2025 |
| Microsoft Security Copilot                                                                             | March 18, 2025 |
| Choosing a Cloud Platform for Developers: AWS, Azure, and GCP                                          | March 17, 2025 |
| Oracle APEX: Foundations                                                                               | March 16, 2025 |
| Insider Threat Risk Management                                                                         | March 15, 2025 |
| Creating AI Applications with Python and GitHub Models                                                 | March 14, 2025 |
| CCSP Cert Prep: 1 Cloud Concepts, Architecture, and Design                                             | March 13, 2025 |
| Cloud Storage Concepts: Services, Cost Control, and Security                                           | March 12, 2025 |
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| Spring 5.0 and Spring Boot 2.0 New Features                       | December 19, 2020 |
| Docker for Developers (2019)                                      | December 18, 2020 |
| Spring: Spring Cloud (2020)                                       | December 7, 2020  |
| Java Concurrency Troubleshooting: Latency and Throughput          | December 6, 2020  |
| Python: Advanced Design Patterns (2018)                           | December 5, 2020  |
| Python: Design Patterns (2015)                                    | December 5, 2020  |
| Advanced Design Patterns: Design Principles                       | December 4, 2020  |
| Secure Coding in Python (2020)                                    | December 3, 2020  |
| Building Tools with Python                                        | December 1, 2020  |
| Python: Decorators                                                | December 1, 2020  |
| Python Object-Oriented Programming (2020)                         | November 29, 2020 |
| Advanced Python (2018)                                            | November 28, 2020 |
| Microsoft Entra ID: Basics                                        | November 22, 2020 |
| Exam Prep: Microsoft Azure Fundamentals (AZ-900) (2019)           | November 21, 2020 |
| CompTIA PenTest+ (PT0-001): 3 Select Your Attacks                 | November 3, 2020  |
| OWASP Top 10: #1 Injection and #2 Broken Authentication           | November 2, 2020  |
| Penetration Testing: Advanced Web Testing (2018)                  | November 1, 2020  |
| CompTIA PenTest+ (PT0-001): 5 Selecting Pen Testing Tools         | October 13, 2020  |
| CompTIA PenTest+ (PT0-001): 6 Using Scripting in Pen Testing      | October 12, 2020  |
| Penetration Testing Essential Training (2017)                     | October 12, 2020  |
| CCSP Cert Prep: 1 Cloud Concepts, Architecture, and Design (2019) | September 9, 2020 |
| Developing Secure Software (2015)                                 | September 9, 2020 |
| CISSP Cert Prep: 2 Asset Security (2018)                          | September 8, 2020 |
| Programming Foundations: Web Security (2019)                      | September 8, 2020 |
| Cybersecurity Awareness: Social Engineering (2019)                | September 7, 2020 |

Pluralsight: 1,172 courses

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| C# 9 Generics                                                     | July 9, 2025  |
| Introducing Scrum Events                                          | July 3, 2025  |
| Introducing Scrum Accountabilities (Roles)                        | June 30, 2025 |
| Introducing Scrum                                                 | June 29, 2025 |
| C# Extension Methods                                              | June 28, 2025 |
| C# Events, Delegates, and Lambdas                                 | June 27, 2025 |
| C# Fundamentals                                                   | June 25, 2025 |
| OWASP Top 10 with Burp Suite                                      | June 20, 2025 |
| Implement Code Scanning with CodeQL                               | June 19, 2025 |
| Introduction to Reinforcement Learning from Human Feedback (RLHF) | June 17, 2025 |
| JavaScript 7 Syntax and Operators                                 | June 11, 2025 |
| Python: Streamlined Logging and Styling with Rich                 | June 8, 2025  |
| Secure Communications for Java Applications                       | June 8, 2025  |
| Functions in JavaScript                                           | June 7, 2025  |



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| Proxy Objects and Reflect in JavaScript                                                            | June 4, 2025   |
| The Forecast: Cloud Sovereignty Rising: Why Europe's Moving Away from AWS, Azure, and Google Cloud | June 4, 2025   |
| Amazon EKS Basics                                                                                  | May 31, 2025   |
| CompTIA Cloud+: Cloud Architecture and Design                                                      | May 30, 2025   |
| How to Build Self-Confidence                                                                       | May 26, 2025   |
| Introduction to Information Security within Cloud Computing                                        | May 26, 2025   |
| Navigating Societal Impacts of AI                                                                  | May 25, 2025   |
| Azure Cost Governance                                                                              | May 24, 2025   |
| What's New in Java 24                                                                              | May 23, 2025   |
| Application Analysis with Snyk                                                                     | May 22, 2025   |
| Secure Coding Best Practices                                                                       | May 21, 2025   |
| Azure Security Fundamentals                                                                        | May 20, 2025   |
| Introduction to Apache Iceberg                                                                     | May 20, 2025   |
| Automating Azure Blob and Archive Storage Operations                                               | May 19, 2025   |
| ISTQB® CTFL: Static Testing                                                                        | May 18, 2025   |
| Python: Typer for Backend CLI Applications                                                         | May 18, 2025   |
| C Foundations: Data Structures and Algorithms                                                      | May 17, 2025   |
| Security-focused Cloud Solutions with AWS                                                          | May 16, 2025   |
| Asynchronous Programming in JavaScript                                                             | May 15, 2025   |
| Implementing Cloud-native in Practice: Strategies for Success                                      | May 12, 2025   |
| Assigning Resource-based Policies on AWS                                                           | May 11, 2025   |
| AWS Network Design: Getting Started                                                                | May 11, 2025   |
| Sandworm: Web Shell Detection                                                                      | May 11, 2025   |
| Security Hot Takes: Inside the M&S Ransomware Attack                                               | May 10, 2025   |
| How to Scale and Optimize Solutions with Azure                                                     | May 1, 2025    |
| Connecting On-prem Resources to Your AWS Infrastructure                                            | April 30, 2025 |
| Security-focused Cloud Solutions with Azure                                                        | April 30, 2025 |
| Cloud Environment Pen Testing                                                                      | April 29, 2025 |
| Visualizing Data on AWS                                                                            | April 29, 2025 |
| Managing Certificates with AWS Certificate Manager                                                 | April 28, 2025 |
| User Input Validation for Java Applications                                                        | April 28, 2025 |
| Data Insights Basics                                                                               | April 27, 2025 |
| How to Design Resilient and Sustainable Architectures on Azure                                     | April 27, 2025 |
| Understanding Cloud Incident Logs                                                                  | April 27, 2025 |
| How to Design Resilient and Sustainable Architectures on AWS                                       | April 26, 2025 |
| Vulnerability Analysis: Vulnerability Lifecycle                                                    | April 26, 2025 |
| AWS Cloud Security Best Practices                                                                  | April 25, 2025 |
| Azure Governance and Compliance                                                                    | April 24, 2025 |
| Optimizing Azure Storage Costs                                                                     | April 24, 2025 |
| C Foundations: File I/O and Error Handling                                                         | April 23, 2025 |
| How to Scale and Optimize Solutions with AWS                                                       | April 23, 2025 |
| The Internet of Things (IoT) and Personal Devices                                                  | April 23, 2025 |
| Governance and Security with AWS Lambda Functions                                                  | April 22, 2025 |
| AWS Machine Learning and Artificial Intelligence Fundamentals                                      | April 21, 2025 |
| Optimizing Data Storage with Amazon S3 Glacier                                                     | April 21, 2025 |
| AWS Database Fundamentals                                                                          | April 20, 2025 |
| AWS Storage Fundamentals                                                                           | April 20, 2025 |
| Understanding AWS and its Global Infrastructure                                                    | April 20, 2025 |
| C Foundations: Structures, Unions, and Custom Data Types                                           | April 19, 2025 |
| Ethical Considerations for OpenAI Sora                                                             | April 19, 2025 |
| PAM Components and Architecture                                                                    | April 18, 2025 |
| YAML 1 Fundamentals                                                                                | April 18, 2025 |
| Salesforce Foundations for New Users                                                               | April 17, 2025 |
| Java Fundamentals: The Regular Expressions Playbook                                                | April 16, 2025 |
| C++ Foundations: Object Oriented Programming                                                       | April 15, 2025 |
| Cryptographic Protocols and Techniques                                                             | April 14, 2025 |
| ChatGPT Pro: OpenAI o3-mini                                                                        | April 13, 2025 |
| Prompt Engineering for Developers with Google Gemini                                               | April 13, 2025 |
| Data Science with Python: Distributions and Aggregations in Data                                   | April 12, 2025 |
| Data Science with Python: Exploratory Techniques to Statistical Insights                           | April 12, 2025 |
| Data Visualization Essentials: Charts, Graphs, Visualizing Data                                    | April 12, 2025 |
| Implementing Policy for Missing Values in Python                                                   | April 12, 2025 |
| Getting Started with Matplotlib                                                                    | April 11, 2025 |

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| Exploratory Data Analysis for Data Scientists                                               | April 10, 2025    |
| Working with Custom Construct Libraries in the AWS CDK                                      | April 10, 2025    |
| Bug Bounty Hunting with Burp Suite                                                          | April 9, 2025     |
| Validate Data Cleanliness Using Asserts in Python                                           | April 9, 2025     |
| AWS Cost Governance                                                                         | April 8, 2025     |
| Cleaning and Working with Dataframes in Python                                              | April 8, 2025     |
| Introduction to Amazon Nova Models                                                          | April 7, 2025     |
| Optimizing AWS Storage Costs                                                                | April 7, 2025     |
| CompTIA Data+: Data Concepts and Environments                                               | April 6, 2025     |
| Up and Running with Pandas                                                                  | April 6, 2025     |
| Using Express with a NoSQL Database                                                         | April 6, 2025     |
| Node.js and Express Foundations                                                             | April 5, 2025     |
| CompTIA Data+: Data Analysis                                                                | April 4, 2025     |
| Plotting Data with Pandas                                                                   | April 4, 2025     |
| Physical Security for the Pen Tester                                                        | April 3, 2025     |
| Python: Backend Data Visualization with Matplotlib                                          | April 3, 2025     |
| Understanding Azure Cost Drivers                                                            | April 2, 2025     |
| Strategies for Effective AI Governance                                                      | April 1, 2025     |
| Introduction to Developing AI Agents                                                        | March 31, 2025    |
| Java Records and Pattern Matching                                                           | March 31, 2025    |
| Azure Database Fundamentals                                                                 | March 29, 2025    |
| The Forecast: Securing the Next Frontier – AI, DeepSeek, and the Future of Cloud Security   | March 29, 2025    |
| Web App Pen Testing with Metasploit                                                         | March 29, 2025    |
| Azure Monitoring Fundamentals                                                               | March 26, 2025    |
| Cloud-native Security and Governance                                                        | March 25, 2025    |
| Optimizing Your Amazon S3 Spending                                                          | March 25, 2025    |
| Understanding AWS Cost Drivers                                                              | March 24, 2025    |
| Developer Reference: HTTP Requests in htmx                                                  | March 23, 2025    |
| Data Communication Basics                                                                   | March 23, 2025    |
| Zero-days Affecting Multiple VMWare Products: What You Should Know                          | March 23, 2025    |
| PowerPoint: Leveraging SmartArt                                                             | March 16, 2025    |
| Azure AI Fundamentals                                                                       | March 15, 2025    |
| AWS Solutions Architecture Foundations                                                      | March 14, 2025    |
| Managing Compute Costs in AWS                                                               | March 14, 2025    |
| Cloud Costs Management and Controls                                                         | March 13, 2025    |
| Microsoft 365 Foundations                                                                   | March 5, 2025     |
| Exploring Amazon Q Developer: Use Cases, Benefits, and Setup                                | March 3, 2025     |
| DevOps Containerization and Orchestration: Deploying Containers                             | March 2, 2025     |
| Identity Management, Authentication, and Access Control with Fail2Ban                       | March 2, 2025     |
| Using AI Agents for Productivity                                                            | March 2, 2025     |
| Introduction to the Configuring and Operating Microsoft Azure Virtual Desktop (AZ-140) Exam | February 28, 2025 |
| Java SE 21 Developer (Exam 1Z0-830): Exception Handling                                     | February 28, 2025 |
| Manage Azure Container Instances                                                            | February 27, 2025 |
| Cybersecurity Career Strategy                                                               | February 26, 2025 |
| Java SE 21 Developer (Exam 1Z0-830): Controlling Program Flow                               | February 26, 2025 |
| Social Media and Personal Privacy                                                           | February 26, 2025 |
| Java SE 21 Developer (Exam 1Z0-830): Streams and Lambda Expressions                         | February 25, 2025 |
| Real-time Document Translation with Azure AI Translator                                     | February 24, 2025 |
| Azure Compute Fundamentals                                                                  | February 23, 2025 |
| The Role of DevOps in Cloud-native Transformation                                           | February 23, 2025 |
| Azure Solutions Architecture Foundations                                                    | February 22, 2025 |
| Security and Compliance for Leaders                                                         | February 22, 2025 |
| Network Configuration: Exploring Network Equipment and Topologies                           | February 16, 2025 |
| Cryptographic Algorithms                                                                    | February 14, 2025 |
| Employing Best Practices with AWS Lambda Functions                                          | February 13, 2025 |
| Cybersecurity Success Roadmap                                                               | February 12, 2025 |
| AWS Networking Fundamentals                                                                 | February 9, 2025  |
| Sandworm: C2 over HTTP Emulation                                                            | February 9, 2025  |
| Azure Storage Fundamentals                                                                  | February 7, 2025  |
| Generative AI for Customers                                                                 | February 7, 2025  |
| AIOps: Introduction to AIOps                                                                | February 6, 2025  |
| Applying Multi-agent Systems to Daily Tasks                                                 | February 6, 2025  |
| Blue-green Deployment for Generative AI                                                     | February 6, 2025  |

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| Basic Cost Optimization in Azure                                                  | February 4, 2025  |
| Data Visualization Basics                                                         | February 4, 2025  |
| Identity and Privilege: Decoding IAM vs. PAM                                      | February 4, 2025  |
| Microsoft Azure Solutions Architect: Design for Cost Optimization                 | February 4, 2025  |
| Generative AI Applications with Amazon Bedrock                                    | February 3, 2025  |
| Multiple Zero-days in Microsoft Hyper-V: What You Should Know                     | February 3, 2025  |
| The Cybersecurity Landscape                                                       | February 3, 2025  |
| C++ Foundations                                                                   | February 2, 2025  |
| Shadow Deployment for Generative AI                                               | January 26, 2025  |
| Practical Applications of Generative AI in DevOps                                 | January 20, 2025  |
| Zero Trust Application and Data Security                                          | January 20, 2025  |
| Security Hot Takes: Nearest Neighbor Attack – A New and Novel TTP                 | January 14, 2025  |
| Cloud Migration Strategies                                                        | January 13, 2025  |
| AWS Security and Compliance Fundamentals                                          | January 9, 2025   |
| Privacy-preserving AI                                                             | January 9, 2025   |
| AI-Driven Cloud Performance Monitoring and Management                             | January 3, 2025   |
| Cloud Deployment Options: Executive Briefing                                      | January 3, 2025   |
| Data Show and Tell: Exploring Trends in AI Research                               | January 3, 2025   |
| How Generative AI Can Help You Keep Up with Updates to Cloud Solutions            | January 3, 2025   |
| Introduction to Amazon SageMaker                                                  | January 3, 2025   |
| Using Generative AI to Analyze and Optimize Cloud Spend                           | January 3, 2025   |
| Network Troubleshooting: Troubleshooting Network Connectivity with Software Tools | January 1, 2025   |
| Security Compliance: ISO 27001                                                    | January 1, 2025   |
| Common Cybersecurity Attacks and How to Avoid Them                                | December 31, 2024 |
| Introduction to Data Literacy                                                     | December 31, 2024 |
| Linux System Administration: Backup and Recovery with rsync and tar               | December 31, 2024 |
| CVE-2024-0012 Palo Alto PAN-OS Authentication Bypass: What You Should Know        | December 30, 2024 |
| Securing Azure Chaos Studio                                                       | December 30, 2024 |
| Cloud Center of Excellence                                                        | December 29, 2024 |
| Security Behaviors at Work                                                        | December 26, 2024 |
| Detect Phishing, Avoid Compromise                                                 | December 15, 2024 |
| Five Cybersecurity Essentials for Everyone                                        | December 15, 2024 |
| Hands-on with Azure Chaos Studio                                                  | December 15, 2024 |
| Password Standards and Multi-factor Authentication                                | December 15, 2024 |
| Cybersecurity–Protecting Yourself and Your Organization                           | December 13, 2024 |
| Introduction to Cloud-native Computing                                            | December 13, 2024 |
| Planning and Provisioning Azure SQL Managed Instance                              | December 13, 2024 |
| Data Preparation in Microsoft Excel                                               | December 11, 2024 |
| Develop Voice-enabled Apps with Azure AI Speech                                   | December 11, 2024 |
| AWS Monitoring Fundamentals                                                       | December 7, 2024  |
| Secure Digital Payments                                                           | December 3, 2024  |
| Best Practices in Serverless                                                      | December 2, 2024  |
| Database Administration: Importing and Exporting Data                             | December 1, 2024  |
| Network Analysis: Identifying Network Protocols with Packet Analysis              | December 1, 2024  |
| Network Security: Implementing Basic Network Security                             | December 1, 2024  |
| Developing LLMs on Amazon Bedrock                                                 | November 21, 2024 |
| Developing Foundations Models with Amazon Bedrock                                 | November 20, 2024 |
| Sandworm: Keylogging Emulation                                                    | November 19, 2024 |
| Working with JavaScript Modules                                                   | November 16, 2024 |
| Amazon Q Developer for Software Development                                       | November 15, 2024 |
| JavaScript Performance Playbook                                                   | November 14, 2024 |
| Introduction to Amazon Bedrock                                                    | November 11, 2024 |
| Orchestrating Serverless Workflows                                                | November 11, 2024 |
| Generators in JavaScript                                                          | November 8, 2024  |
| JavaScript Promises and Async Programming                                         | November 5, 2024  |
| JavaScript Proxies and Reflection                                                 | November 3, 2024  |
| Grafana Concepts and Basic Configuration                                          | November 2, 2024  |
| Object-oriented Concepts in JavaScript                                            | October 30, 2024  |
| JavaScript: Using Arrays – Interactive                                            | October 27, 2024  |
| Amazon CloudFront Configuration Basics                                            | October 26, 2024  |
| Code School: JavaScript Road Trip Part 1                                          | October 26, 2024  |
| Introduction to Amazon Q Business                                                 | October 26, 2024  |
| JavaScript From Scratch                                                           | October 26, 2024  |

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| CISSP® – Communications and Network Security                                | October 25, 2024   |
| Azure Networking Fundamentals                                               | October 24, 2024   |
| Integrate Azure Container Instances with Azure Services                     | October 24, 2024   |
| Introduction to Amazon Q                                                    | October 23, 2024   |
| Understanding Serverless APIs                                               | October 20, 2024   |
| Detect Errors and Audit Formulas in Microsoft Excel                         | October 18, 2024   |
| Automating Azure DevTest Labs                                               | October 17, 2024   |
| Advanced Persistent Threat Brief: Sandworm Team                             | October 15, 2024   |
| Business Logic Testing with Burp Suite                                      | October 15, 2024   |
| Sandworm Team: T1505.003 Server Software Component Web Shell Emulation      | October 15, 2024   |
| Introduction to Data                                                        | October 14, 2024   |
| Deploy Azure Container Instances                                            | October 12, 2024   |
| Understanding Azure DevTest Labs                                            | October 9, 2024    |
| OpenPrinting CUPS Remote Code Execution Exploit Chain: What You Should Know | October 8, 2024    |
| CVE-2024-43491 Windows Update Remote Code Execution: What You Should Know   | October 4, 2024    |
| Event-driven Architectures in Serverless                                    | October 3, 2024    |
| Image Generation with Craiyon                                               | October 2, 2024    |
| Introduction to Serverless                                                  | October 2, 2024    |
| Turning Wireframes into Prototypes with Midjourney                          | October 2, 2024    |
| Image Generation with Imagen                                                | September 30, 2024 |
| Improving Retrieval with RAG Fine-tuning                                    | September 19, 2024 |
| Integrating Knowledge Bases for RAGs                                        | September 17, 2024 |
| Securing Azure Functions Solutions                                          | September 17, 2024 |
| Create a Macro for Data Analysis in Microsoft Excel                         | September 16, 2024 |
| Risk Management in Generative AI Implementation                             | September 15, 2024 |
| IT Security Champion: Incident Response                                     | September 14, 2024 |
| Perform Basic Statistical Analysis in Microsoft Excel                       | September 12, 2024 |
| Retrieval Augmented Generation (RAG) with Azure AI Search                   | September 11, 2024 |
| Data Validation Techniques in Microsoft Excel                               | September 9, 2024  |
| Protecting Online Communities with Azure AI Content Safety                  | September 9, 2024  |
| Staying Sharp: How to Keep Growing in your Tech Career                      | September 9, 2024  |
| Cybersecurity and Artificial Intelligence                                   | September 6, 2024  |
| Information Extraction with Azure AI Document Intelligence                  | August 25, 2024    |
| Physical Security for The Hacker                                            | August 24, 2024    |
| Azure Identity and Access Fundamentals                                      | August 23, 2024    |
| Summarize Data in Microsoft Excel                                           | August 23, 2024    |
| Image Generation with Stable Diffusion                                      | August 21, 2024    |
| Implement Row-level Security (RLS) in Power BI                              | August 21, 2024    |
| Evaluating RAG Solutions                                                    | August 19, 2024    |
| Meeting Web Accessibility Guidelines (Section 508/WCAG 2.1)                 | August 19, 2024    |
| Introduction to Developing Custom Components with ARIA 1                    | August 18, 2024    |
| Ensure Data Accuracy and Integrity with LangChain Queries                   | August 17, 2024    |
| Create and Format Basic Charts in Microsoft Excel                           | August 16, 2024    |
| Create and Format Specialized Charts in Microsoft Excel                     | August 16, 2024    |
| Image Generation with Copilot AI Image Generator                            | August 15, 2024    |
| JavaScript 3 Objects and Prototypes                                         | August 15, 2024    |
| Arrays and Objects in JavaScript                                            | August 14, 2024    |
| Testing in Python 3                                                         | August 13, 2024    |
| Integrate Power BI with Python                                              | August 12, 2024    |
| API Security Practices                                                      | August 11, 2024    |
| Security Hot Takes: CrowdStrike Outage Post-mortem                          | August 11, 2024    |
| Building Dashboards from Prometheus Data in Grafana                         | August 7, 2024     |
| Carbon Language: First Look                                                 | August 6, 2024     |
| Fact Verification with RAGs                                                 | August 4, 2024     |
| Microsoft Fabric: First Look                                                | August 1, 2024     |
| Django 5: The Big Picture                                                   | July 30, 2024      |
| Enhancing Cloud Security on AWS with Generative AI                          | July 30, 2024      |
| Choosing Generative AI Tools and Technologies                               | July 29, 2024      |
| Running Prometheus 2 in Production                                          | July 29, 2024      |
| Volt Typhoon: Preventative Control                                          | July 29, 2024      |
| Configuring Prometheus 2 to Collect Metrics                                 | July 27, 2024      |
| Monitoring Key Systems with Prometheus Exporters                            | July 26, 2024      |
| Security Hot Takes: Mid-year Review 2024                                    | July 25, 2024      |



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| Site Reliability Engineering (SRE): The Big Picture                 | July 25, 2024 |
| Getting Started with Prometheus                                     | July 24, 2024 |
| Alerting on Issues with Prometheus Alertmanager                     | July 23, 2024 |
| Instrumenting Applications with Metrics for Prometheus              | July 22, 2024 |
| AI-driven Competitive Analysis                                      | July 20, 2024 |
| Deploying Models with Azure Machine Learning                        | July 20, 2024 |
| Using Generative AI to Refine Communications to Executives          | July 20, 2024 |
| Empathy: Your Secret to Working More Effectively                    | July 19, 2024 |
| Managing Modern Databases with Generative AI                        | July 18, 2024 |
| Prompt Engineering for Google Gemini                                | July 18, 2024 |
| Analyze Qualitative Data from User Research Using Generative AI     | July 17, 2024 |
| Image Analysis and OCR with Azure AI Vision                         | July 16, 2024 |
| Assessing Infrastructure Readiness for Generative AI                | July 15, 2024 |
| Assessing Your Company's AI Talent Needs                            | July 15, 2024 |
| Streamline Data Queries with LangChain                              | July 15, 2024 |
| Develop NPL Apps with Azure AI Language                             | July 14, 2024 |
| Managing Change and Driving Adoption of Generative AI               | July 14, 2024 |
| Querying Data with Generative AI                                    | July 13, 2024 |
| The Information Systems Auditing Process: Conducting an Audit       | July 10, 2024 |
| Build Solutions with Pre-trained LLMs                               | July 8, 2024  |
| Advanced Text Generation and Analysis with LLMs                     | July 7, 2024  |
| regreSSHion - an OpenSSH RCE Vulnerability: What You Should Know    | July 7, 2024  |
| Physical Security for the Defender                                  | July 7, 2024  |
| Practical Application of LLMs                                       | July 6, 2024  |
| Data in the Cloud: Executive Briefing                               | July 5, 2024  |
| Ethics and Bias in Artificial Intelligence: Executive Briefing      | July 5, 2024  |
| Vector Databases & Embeddings for Developers                        | July 5, 2024  |
| Vector Space Models and Embeddings in RAGs                          | July 5, 2024  |
| Artificial Intelligence Essentials: Responsible AI                  | July 4, 2024  |
| Azure Arc: The Big Picture                                          | July 4, 2024  |
| The Information Systems Auditing Process: IT Management             | July 3, 2024  |
| 5 Ways to Build Executive Presence                                  | July 2, 2024  |
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| Risk Response and Reporting for ISACA® CRISC™                       | July 2, 2024  |
| Multi-modal RAGs                                                    | July 1, 2024  |
| Creating Synthetic Datasets with Generative AI                      | June 28, 2024 |
| Assessing Data Readiness for Generative AI                          | June 27, 2024 |
| Claude 3 Advanced Features                                          | June 27, 2024 |
| Ethics for Computer Vision                                          | June 27, 2024 |
| Modular RAGs                                                        | June 27, 2024 |
| Network Layer Addressing and Subnetting                             | June 26, 2024 |
| GitHub Foundations: GitHub Copilot                                  | June 24, 2024 |
| Volt Typhoon: T1003.003 Credential Dumping Emulation                | June 23, 2024 |
| Volt Typhoon: T1070.003 Indicator Removal Emulation                 | June 23, 2024 |
| Advanced Persistent Threat Brief: Volt Typhoon                      | June 22, 2024 |
| Developer Security Champion: SAST & DAST                            | June 20, 2024 |
| Anthropic: Prompt Engineering for Cyber Security                    | June 19, 2024 |
| Code Review with GitHub Copilot                                     | June 17, 2024 |
| Create AI-assisted Product Documentation                            | June 17, 2024 |
| Gemini: Prompt Engineering for Image Generation with Gemini         | June 15, 2024 |
| Prompting Basics for Claude 3                                       | June 15, 2024 |
| Developer Security Champion: Supply Chain Security                  | June 14, 2024 |
| Volt Typhoon: T1003.003 Credential Dumping Detection                | June 9, 2024  |
| Volt Typhoon: T1059.003 Command and Scripting Interpreter Detection | June 9, 2024  |
| Volt Typhoon: T1070.003 Indicator Removal Detection                 | June 9, 2024  |
| Gemini: Prompt Engineering for Data Professionals                   | June 8, 2024  |
| Claude 3 Integration                                                | June 7, 2024  |
| Gemini: Prompt Engineering for Business Professionals               | June 7, 2024  |
| Google Gemini API                                                   | June 7, 2024  |
| Google Gemini Integration                                           | June 7, 2024  |
| Gemini: Prompt Engineering for Cyber Security                       | June 6, 2024  |
| Prompt Engineering for Developers with Claude 3                     | June 6, 2024  |
| Gemini: Prompt Engineering Best Practices                           | June 5, 2024  |

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| Google Gemini Model Selection                                            | June 5, 2024   |
| Claude 3 Model Selection                                                 | June 4, 2024   |
| Anthropic: Prompt Engineering Best Practices                             | June 3, 2024   |
| Data Security Champion: Data Privacy and Ethics                          | June 3, 2024   |
| LLMs in Action: Real-world Applications                                  | June 2, 2024   |
| Anthropic: Prompt Engineering for Developers                             | June 1, 2024   |
| Gemini: Prompt Engineering for Developers                                | June 1, 2024   |
| VPNs and Wireless Networks                                               | May 31, 2024   |
| Data Security Champion: Data Privacy Regulations                         | May 26, 2024   |
| Claude 3 API                                                             | May 25, 2024   |
| TCP/IP and Networking Fundamentals for IT Pros                           | May 25, 2024   |
| Windows Endpoint Security: Networking                                    | May 25, 2024   |
| Introduction to Firewalls                                                | May 20, 2024   |
| TCP/IP Networking for Developers                                         | May 13, 2024   |
| 802.11 Technology Fundamentals for Cisco WIFUND (200-355)                | May 11, 2024   |
| Network Fundamentals and Protocols                                       | May 10, 2024   |
| Preparing Wireless Site Surveys                                          | May 10, 2024   |
| Networking for CompTIA Server+ (SK0-004)                                 | May 4, 2024    |
| Fiddler Classic 5: The Big Picture                                       | April 30, 2024 |
| Resource Development with ColdFire                                       | April 30, 2024 |
| SwiftUI Fundamentals                                                     | April 29, 2024 |
| Swift 5: The Big Picture                                                 | April 28, 2024 |
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