

Joseph L. McDonough

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EXPERIENCE

• Fortinet (formerly Concourse Labs before acquisition)

Remote

Software Engineer

January 2022 - July 2024

- Create, develop, test, debug, and document Spring Boot Java REST services, run in Kubernetes
- Create, develop, test, debug, and document Quarkus gRPC services using reactive programming with Mutiny, run in Kubernetes
- Created, developed, tested, debugged, and documented autonomous Postman test suites to perform regression testing and monitor all public endpoints with alerts sent to Slack
- Developed, tested, debugged, and documented upon a bare system to generate and store audit logs caused by users performing available actions within the Concourse Labs application. Logs are stored in a database and forwarded to AWS and GCP queues
- Developed, tested, debugged, and documented various jobs and CronJobs written in Python, Golang, and Scala to perform repetitive actions needed by our product

• Amazon

Seattle, WA

APP Software Development Engineer Intern, Finance Technology

June - August 2021

- Designed, created, documented, and presented a full-stack project using TypeScript, YAML, React.js, Java, GraphQL, and AWS services that allowed for the modification and viewing of data on a UI to increase the quality of life to the product's users and development team
- Engaged in labs that utilized numerous AWS services to learn about the development process and best practices at Amazon

• BD

Franklin Lakes, NJ

Product Security Engineering Team Intern

May - August 2019

- Wrote and presented a user guide for KeePass to an internal pilot group, Chief Risk Officer, and Chief Information Security Officer
- Wrote and documented scripts using PowerShell to create a KIOSK on BD products, verify the changes, and perform rollbacks
- Wrote and documented scripts using PowerShell to harden the Internet Information Services, verify requirements, and rollback changes

EDUCATION

• Marist College

Poughkeepsie, NY

Bachelor of Science; Majors in Computer Science/Software Development and Cybersecurity; Minors in Information Systems & Information Technology

August 2018 - December 2021

- Graduated summa cum laude with Dean's List every semester
- Began Master's in Software Development by completing two courses in Spring of 2022 but not continuing at this time
- Marist Emerging Leaders Certificate Program

CERTIFICATION

• Google Data Analytics Professional Certificate

Online

Coursera

March 2023 - April 2023

- Data analytics course to better learn and practice working preparing, processing, analyzing, and sharing data
- Worked with spreadsheets, SQL, Tableau, and R to complete various mini-projects and a case study

OTHER PROJECTS

• Project Radiance Video Game - Unreal Engine 5 and C++

Remote

Kuneho Studios - UX/UI Engineer. Website creator and maintainer

August 2023 - Present

- Created and working with a team of indie game developers to create a multi-lane rhythm game with its own unique features and music
- Design, develop, debug, test, display, and document an inventory system, crafting system, stats system, and new player tutorial
- Attend Game Developers Conference 2024 in San Francisco to demo the game and meet industry professionals
- Co-designed, created, documented, and maintain the kunehostudios.com website

• Cybersecurity Escape Room Video Game - Unity and C#

Poughkeepsie, NY

SendHelp Studios - UX/UI and Gameplay Engineer. Design team lead

August 2021 - December 2023

- Led the design team (cybersecurity students) and work on the development team (software development students) to design, create, document, and play-test an escape room game using Unity and C# to teach cybersecurity principles
- Presented the game and paper at a Marist Open House, an IEEE event, a local business plan competition, and an Enterprising Computing Conference where it won the cybersecurity award for best in category
- Sponsored and worked with a group of Marist capping students in the fall of 2022 to continue producing the game as it has already been licensed to a high school cybersecurity course and is pursuing other targets

SKILLS

- Professional experience with Java, Python, Spring, Bazel, Gradle, Quarkus, Mutiny, Git, PostgreSQL, Golang, Scala, AWS, GCP, Redis, Kubernetes, gRPC, Protobuf, JSON, YAML, Helm, and Postman
- Other experience in HTML, CSS, JavaScript, PHP, SQL, Racket, PowerShell, TypeScript, C#, Qiskit, Unity, Unreal Engine 5, C++, R, Tableau, Google Suite, Microsoft Office, Adobe Lightroom, and GIMP