Mathew Estafanous

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Education

B.Sc Computer Science
Ryerson University | September 2021 - April 2025

Recurse Center Participant
Recurse Center | May 2021 - July 2021
- Participated in a self-directed programming retreat, working alongside other recursers to learn and build upon my skills.
- Engaged in countless code review and feedback processes including several pair programming sessions.

Work Experience

Software Developer Intern
JetBrains | May 2022 - August 2022
- Involved in the Docker Compose team that aims to remake the integrated Docker Compose plugin within all JetBrains IDEs
- Working on developing a revamped UI as well as implementing new business logic that retrieves and displays necessary information to users.

Coding Instructor
Code Ninjas | September 2021 - February 2022
- Conveyed key programming concepts in a manner that is easy to understand. Doing so by providing relatable examples and/or visuals.
- Expanded upon lessons plans to create a learning environment that best fit the kids' learning style and their learning objectives.
- Provided feedback regarding the curriculum and potential improvements based on the student's experience.

Project Experience

HashiCorp Core Contributor (Open Source)
https://github.com/hashicorp/consul
- Recognized as a HashiCorp Core Contributor for 2022 and was invited to work closely with engineers in making future open source contributions.
- Initiated the transition of 100+ tests to utilize HTTP handlers, resulting in the identification of an unnoticed bug and developing a solution that immediately fixed the bug.
- Continually communicated with other developers and discussed potential solutions to the problem and feedback regarding the implemented code.

Open Stage
https://open-stage-web.herokuapp.com (May take some time to startup)
https://github.com/Mathew-Estafanous/Open-Stage
- A Q&A platforms that enable hosts to create rooms and invite others to join using a short code.
- Engineered core business logic into decoupled layers, creating a modular system that allows for maximum testability and reusability.
- Implemented a secure authentication system that enabled a seamless login and account system.
- Composed detailed documentation that outlines the architecture of the app and how each part is used. Such as creating database schemas and API documentation.

Ur-Codebin (Code Sharing Website)
https://ur-codebin.herokuapp.com/   (May take some time to startup)
https://github.com/Mathew-Estafanous/Ur-Codebin
- An application that allows users to post sections of their code and share it with a single link.
- Designed an architecture that incorporated applicable design patterns, enabling a clean code base that maximizes productivity.
- Produced sets of reliable unit tests that ensure critical functionality was maintained 100% of the time.
- Streamlined deployment process down to a simple 2 step process, through the use of containers, minimizing potential deployment issues.

Raft Protocol Library
https://github.com/Mathew-Estafanous/raft
- Built an efficient implementation of the Raft consensus algorithm into an easy to use Go library.
- Researched key elements from a variety of professional papers, documenting each problem and the appropriate solution. Analyzing solutions to issues relating to similar distributed systems.
- Designed a flexible client library that enables users to define and implement how the library is intended to be used.

Technical Skills

Programming languages: Java, Go, JavaScript, Python, HTML/CSS

Technical Tools: Git, Spring Boot, Hibernate, Linux, React.js, AWS, Heroku, Docker, MySQL, PostgreSQL, Redis, REST APIs, Nginx

Principles: Data Structures & Algorithms, Cacheing, Object-Oriented Programming, Unit Testing, S.O.L.I.D Design Principles, Domain-Driven Design