

Mathew Estafanous

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Education

B.Sc Computer Science (Expected)

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.

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**.
- Developed a **secure authentication system** that enables a safe and easy to use 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.

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, Linux, AWS, Heroku, Docker, MySQL, PostgreSQL, Redis, React.js, REST APIs, Spring Boot, JWT Authentication

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

Project Experience

Code Pastebin 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.

Space Generation App

<https://github.com/Mathew-Estafanous/Space-Generation>

- An app that generates an infinite 2D universe in which users are able to interact with.
- Produced an algorithm that decreases memory usage by **3x**. This was done by dynamically generating only the objects that would be visible to the user at each moment.
- Utilized procedural generation algorithms, to ensure data about the universe would remain **consistent** throughout the universe generation process.

Work Experience

Coding Instructor

Code Ninjas | September 2021 - Present

- 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.

Camp Leader

Chapel Place Sports Camp | June 2021 - August 2021

- Organized and lead multiple team games and activities for campers of all ages throughout the summer sports camp.
- Collaborated with leaders to analyze areas of improvement and discuss potential plans to grow in the identified area.
- Working one-on-one with campers to guarantee their success in the activity or sport at hand.