

Mathew Estafanous

mathewestafanous13@gmail.com | [LinkedIn](#) | [GitHub](#) | [Personal Website](#)

Technical Skills

Programming Languages: Go, Java, Typescript, Kotlin, JavaScript, Python

Technical Tools: Git, Docker, React.js, AWS EC2, RDS, MySQL, PostgreSQL, Redis, Spring Boot, JWT
Maven, Gradle, Linux, Nginx

Education

B.Sc Computer Science - Toronto Metropolitan University

September 2021 - April 2025

- 4.26 / 4.33 cGPA

Work Experience

1Password - Software Engineer Intern

May 2023 - August 2023

- **Slashed execution time by 80%** for an SQL data migration by replacing subqueries with a constant time algorithm.
- Built an end-to-end automated content system with Go and React that **reduced marketing timelines by 2 weeks**.
- Facilitated alignment of team goals by **negotiating with engineering and security managers**, leading to the efficient utilization of one of the two remaining permission resources.
- **Mitigated security risks** by engineering a robust approval system that necessitates a second-party review before deployment of in-app promotional content.

JetBrains - Software Engineer Intern

May 2022 - May 2023

- Engineered a fault-tolerant system that recovers failed containers, achieving **3x reduction in workflow disruptions**.
- Developed a Dockerfile parsing algorithm using Kotlin that **eliminated 80% of prior user configuration**.
- **Increased test coverage by 62%** through optimization and addition of unit tests, concurrently resolving numerous bugs.
- Led the development of a docker-compose IDE feature that **reduced development cycles to under 2 seconds**.
- Presented design documents that outlined quantifiable goals and steps for efficient development of core features.

Code Ninjas - Coding Instructor

September 2021 - February 2022

- Led the **creation of 2 object-oriented lessons** into the core curriculum for game development students.
- Simplified intricate programming concepts with visuals and examples, resulting in **enhanced learning retention**.

Project Experience

HashiCorp (Open Source) - HashiCorp Core Contributor

- Recognized as a HashiCorp Core Contributor for 2022 and 2023, and was invited to engage closely with engineers in making future open source contributions to Consul.
- 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.
- Engineered a solution to consolidate 10+ HTTP types into a single type, thereby **decreasing codebase complexity**.

Ur-Codebin (Code Sharing Website) - [GitHub](#) | [Website](#)

- A Java application that allows users to post sections of their code and share it with a single link.
- Produced a set of reliable unit tests that ensured **critical functionality was maintained 100%** of the time.
- Designed a system that incorporated design patterns, enabling a clean code base that **maximizes productivity**.
- Streamlined deployment down to a **2 step process**, through the use of containers, minimizing deployment issues.

Open Stage - [GitHub](#) | [Website](#)

- Developed a Q&A platform using Go, React and MySQL, allowing hosts to create rooms and invite guests to join.
- Engineered business logic into decoupled layers, creating a modular system that **maximized testability and reusability**.
- Deployed a **zero-trust security system** utilizing JWT authentication and explicit security rules for resource access.