Mathew Estafanous

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Technical Skills

Programming Languages: Go, Java, TypeScript, Kotlin, JavaScript, Python, C

Technical Tools: Git, Docker, React, AWS EC2, RDS, MySQL, PostgreSQL, Redis, Spring Boot, Terraform, Splunk, Kubernetes, DynamoDB, SQS, Gradle, Linux, Nginx,

Education

B.Sc Computer Science - Toronto Metropolitan University — September 2021 - April 2025

- Machine Learning | Computer Security | Database Systems I | Networks | Operating Systems | Data Structures & Algorithms

Work Experience

Okta - Site Reliability Engineer Intern — May 2024 - August 2024

- **Achieved $950/month reduction** in AWS compute cost by building a Go service for alerting on long-lived instances.
- Identified **130+ out of compliance instances** by engineering a distributed vulnerability reporting service that aggregates **AWS EC2** data into **DynamoDB** and sends alerts for high-risk instances.
- **Reduced multi-region deployment time by 65%** through service consolidation into a single scalable application.
- Created an automated multi-region infrastructure deployment pipeline **using Terraform, Docker, CI/CD and Go.**
- **Led alignment meetings with 5 SRE teams** to discuss findings from weekly vulnerability reports and splunk alerts.

1Password - Software Developer 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 built with Go and SQL by using finite state machines and audit logs to ensure approval of all in-app content before deployment.

JetBrains - Software Engineer Intern — May 2022 - May 2023

- **Achieved a 2x reduction in disruptions** by engineering a fault-tolerant container orchestration system built on Kotlin, Docker and RPC which quickly identifies and recovers failed containers.
- **Eliminated 75% of required user configuration** by developing a Dockerfile parsing algorithm using Kotlin.
- **Increased test coverage by 42%** through the addition of unit tests, concurrently resolving numerous bugs.
- Led the design and execution of a docker-compose IDE feature that **reduced development cycles to under 2 seconds.**

Code Ninjas - Coding Instructor — September 2021 - January 2022

- Led the **creation of 2 object-oriented lessons** into the core curriculum for game development students.

Project Experience

HashiCorp (Open Source) - HashiCorp Core Contributor

- Recognized as a **HashiCorp Core Contributor for 2022-2023**, invited to collaborate on future Consul 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.
- 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.

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.