Charlene Rocha

charlenerocha.com | crocha@uwaterloo.ca | 289-988-8652 | in: charlenerochaa | Q: charlenerocha

Education

University of Waterloo

Sept 2021 – Apr 2025

Honours Bachelor of Software Engineering

3.95/4 GPA

• Awards: Gloria Baylis Award, Engineering Leadership Excellence Award, President's Scholarship of Distinction

Experience

Electronic Arts

Sept 2023 — Present

Software Engineer Intern

Redwood City, CA

- Built a custom Python CLI tool enabling seamless remote access and interactive debugging of dynamically
 provisioned build agents, enhancing troubleshooting capabilities in a virtualized environment.
- Systematized build failure resolution by efficiently reproducing issues through **Azure**-based virtual machines mirroring recent pipeline configurations for 68 teams and 13,000 developers.

1Password

Jan 2023 — Apr 2023

Software Developer Intern

Toronto, ON

- Implemented powerful visualization tools for security information and event management (SIEM) metrics with data aggregation to provide 32,000+ administrators with an actionable team activity report.
- Strengthened the SIEM multi-layered security measures by refactoring the permissions model using Go, JavaScript, and Rust, providing expanded visibility into an account's actions and events.
- Constructed a **TypeScript** and **React**-based dashboard to display users' security posture, which garnered over 1,000,000 views and was adopted by major companies such as Shopify, GitLab, Snowflake, and Slack.

ADP, Inc.

May 2022 — Aug 2022

Software Engineer Intern

Toronto, ON

- Employed Agile methodology to migrate JavaScript API endpoints to a horizontally scalable microservices
 architecture, replacing an existing monolithic structure and improving request latency by 67%.
- Repaired 7 critical security vulnerabilities in the Authentication Service using Java while increasing the CI/CD pipeline test coverage from 43% to 95% to prevent future instances of inaccessible features.

iRegained

May 2021 - Aug 2021

Software Engineer Intern

Sudbury, ON

 Leveraged Android SDK and Kotlin to develop an interactive avatar throughout the Software Development Life Cycle, ensuring compliance with all 38 Coding Accessibility Standards for stroke patient support.

e-NABLE Toronto

Sept 2020 — May 2021

Lead Software Developer

Toronto, ON

• Engineered 3D-printed custom-fit prosthetic hands while leading and training 25 members of the team.

Projects

Artificial Intelligence Trash Sorter

Jan 2022 – Apr 2022

• Trained an image classification machine learning model using data augmentation and a limited dataset of 3000 photos to identify trash with 94.5% accuracy.

Diversity in Tech Activist

Mar 2017 - Present

• Presented a TEDx talk, starred in a leadership docuseries, and led STEM seminars for 30,000+ students.

Technical Skills

Languages: Java, C, C++, Python, SQL, JavaScript, TypeScript, Go, HTML, CSS, PHP, Kotlin, Rust Frameworks & Libraries: React, Node.js, Bootstrap, MongoDB, Spring, React Native, Flutter

Developer Tools: Git, Jenkins, Amazon Web Services, Docker, Jira, DataDog, Postman, Maven, Unix, Apache Kafka, Redis