

Steven Li

✉ stevenli7210@gmail.com | 🌐 github.com/Steven20210 | 🔗 linkedin.com/in/steven-li1

Education

University of Waterloo

Waterloo, Ontario

Bachelor of Applied Science in Computer Engineering (Co-op)

Sep 2021 - Apr 2026

- **Relevant Coursework:** Data Structures and Algorithms (C++), Systems Programming and Concurrency (C)
- **GPA:** 85.8 %

Skills

Programming Languages Python, Go, C, C++, Node.js, TypeScript, Java, Swift, Kotlin, HTML, CSS

Frameworks Elastic Search, Flask, Express.js, Apache Lucene, Hadoop, SwiftUI, Android Jetpack, MySQL, MongoDB, Jest

Tools/Technologies Amazon S3, Kibana, Docker, Git, Xcode, Android Studio, Gradle, Postman, Linux, Powershell

Experience

Arctic Wolf Networks Inc.

Waterloo, Ontario

Software Developer Intern

May 2024 - Aug 2024

- Created diagnostic container with **Docker**, **Github Actions** and hosted on **AWS ECS**, allowing micro services to effectively debug issues.
- Integrated the deployment of wrench container in **EKS** with multiple micro-services, integrating with their **PostgreSQL** database.
- Upgraded **EKS** version with two major risk services in various production servers.
- Created metrics and alarms to monitor latency and errors to **Grafana** boards with **Golang** and **Prometheus.io**

Arctic Wolf Networks Inc.

Waterloo, Ontario

Security Developer Intern

Sept 2023 - Dec 2023

- Built various **Windows** endpoint detection rules from various **MITRE Attack** techniques from **Sysmon logs** with **Python** for the **MDR** solution
- Created a tool with over **20+** features with **Elastic Search** in **Python** to query observations reducing aggregation time by **70%**
- Architected a **CI** pipeline with **Node.js** and **GitHub Actions** to automatically assign PR reviewers reducing delay significantly
- Developed a round robin load balancing algorithm using **Depth-First-Search** with **Amazon S3** and **Node.js** to evenly distribute reviewers
- Implemented unit tests with **Jest** and the **unittest** library, using Mock objects to build thorough and reliable test suites

RouteThis

Kitchener, Ontario

Mobile Application Developer Intern

Jan 2023 - Apr 2023

- Completed a **Swift** sample app estimated to take 1 year within 2 months, saving the company over **\$50000** in overhead costs
- Carried out and refactored over **50+ Android and iOS** features in 2 new apps with **MVVM** architecture using **SwiftUI** and **Kotlin**
- Built **CI/CD** Pipeline with **Github Actions**, **Fastlane**, and **Firebase** to automatically deploy **Android** apps saving company over **\$2000**
- Queried and developed various handlers in **Swift** and **Kotlin** for various **API** endpoints within our in-house API and **Firebase**
- Incorporated the **coordinator pattern** in **Swift**, resulting in an optimized app flow and handled asynchronous API calls

Trustwave Holdings Inc.

Waterloo, Ontario

Software Developer Intern

May 2022 - Sep 2022

- Created, updated, and maintained **150+ Robot Framework** automation test cases in **Python** to test the SIEM-NG model
- Automated cleaning and masking of ML test data with **Elastic Search** and **Python**, reducing aggregation time by **90%**
- Debugged and tested the **Hadoop** ecosystem with **Tensorflow** ML models, through verifying and testing TCP **Kafka** logs
- Tested internal **MySQL** database with **SQL** scripts and used **Selenium** to test the **configuration UI** for the cybersecurity product

University of Alberta

Edmonton, Alberta

Research Assistant

Jul 2020 - Aug 2021

- Created a **convolutional neural network** with **TensorFlow** to identify different forms of cell death with **80% validation accuracy**
- Incorporated tuning techniques such as **data augmentation** and **L2 regularization** which increased validation accuracy by **10%**
- Automated preparation, filtering, and segmented test data in **Python** from raw cell images reducing processing time by up to **70%**
- Presented work at a local **neuroscience conference** with a graduate student and professor

Projects

RainChecker

Technologies: React.js, Express.js, MongoDB, Node.js, Selenium, Python, HTML/CSS

- Created a website allowing users to create a wishlist and notifies users when an item drops in price, through scraping Google Shopping
- Enforced **session** management to protect against users accessing unauthorized pages and timeout to protect user information