

# Rohan Minocha

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## EDUCATION

### University of Waterloo

Sep 2020 – Apr 2025

Honours Bachelor of Computer Science (Co-op)

Relevant Courses: Object-Oriented Programming, Data Structures & Algorithms, Foundations of Sequential Programs

## SKILLS

**Languages** Python, JavaScript, Golang, SQL, C++, Java, HTML/CSS, Swift

**Technologies** React, Next.js, Node.js, Vue.js, Express.js, Flask, Django, Redux

**Tools** Git, PostgreSQL, AWS EC2/S3, Redis, Elastic Search, MongoDB, Docker, Kubernetes

## EXPERIENCE

### Trustwave | Software Engineer Intern

Jan 2023 – Apr 2023

Chicago, IL

- Spearheaded infrastructure migration to [AWS S3](#), reducing database volume by [30%](#) to improve service processing performance
- Prototyped OS build metadata [Python](#) service for CI systems, with build parallelization reducing job time from [2 hrs](#) to [10 mins](#)
- Transported metrics and logs to [Kafka](#) and [Kubernetes](#) clusters to monitor architecture using dashboards developed in [Grafana](#)

### Electro Source | Software Developer Intern

May 2022 – Aug 2022

Toronto, ON

- Shipped APIs in [Express.js](#) server to update and delete action items stored in [MongoDB](#), tested using [Postman](#) API client
- Enhanced app performance by creating [Docker](#) container to deploy [Redis](#) in-memory cache instance for real-time analytics
- Improved iOS mobile app security by addressing [25+](#) vulnerabilities in [React Native](#) by analyzing OWASP Top 10 reports
- Reduced manual testing load by [20%](#) by creating automated test cases to ensure notifications and error headers validity

### Elekta | Software Developer Intern

Sep 2021 – Dec 2021

Sunnyvale, CA

- Optimized software license generation by [20x](#) by creating [Java](#)-based standardized tool, reducing infrastructure costs by [33%](#)
- Implemented [Spring Boot](#) REST APIs to fetch data from [MySQL](#) server, reducing API calls by [30%](#) when creating new accounts
- Developed and reinforced [C++](#) image processing algorithms for enhancing image quality and removing noise for radiotherapy
- Enhanced AQUA v3.1 security by investigating vulnerabilities from Nessus scan resulting in [20%](#) decrease in cybersecurity issues

### Delhi Public School | Software Engineer Intern

Sep 2018 – Jun 2019

Kuwait

- Designed full-stack iOS application for sharing recorded lectures in real-time, with in-app note-taking functionality
- Created mobile app using [Swift](#) and [SwiftUI](#) and received [6000+](#) downloads on App Store with 3.0 monthly app traffic
- Built upon multi-tier architecture and implemented wireframes and designs for technical feasibility to improve user experience

## PROJECTS

### UWPath | [Python](#), [Django](#), [JavaScript](#), [Vue.js](#), [Docker](#), [PostgreSQL](#), [NGINX](#), [Firebase](#)

- Architected full-stack application to help [6500+](#) UWaterloo students plan degrees based on majors, minors, and options
- Established prototype using [Django](#) and created [Docker](#) container for microservices, automating build and deployment process
- Implemented Google OAuth using [Firebase](#) Authentication to allow users to store and retrieve user data in UWPath accounts

### Crypto Logix | [React](#), [Redux](#), [Chart.js](#), [REST APIs](#), [Ant Design](#)

- Developed web app to display real-time crypto statistics from multiple sources using [Rapid API](#) and [Bing Search API](#)
- Engaged [150+](#) students in UW Blockchain Club to learn cryptocurrency and escalated pageviews by [20%](#) to optimize UX

### CrediSafe | [Python](#), [Pandas](#), [NumPy](#), [Matplotlib](#)

- Built data investigation model [280K+](#) transactions in [26 seconds](#) using K-Nearest Neighbors and K-Means Clustering
- Implemented data cleaning, data visualization, and confusion matrix to detect fraudulent transactions with [99% accuracy](#)