

# Rohan Minocha

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## EDUCATION

### University of Waterloo

Sep 2020 – Apr 2025

Bachelor of Computer Science Honours, Co-op

Waterloo, ON

- President's Scholarship of Distinction
- **Relevant Coursework:** Algorithms, Data Structures, Object Oriented Programming, Data Management, User Interfaces

## SKILLS

**Languages:** Python, TypeScript/JavaScript, Go, Kotlin, Java, C/C++, SQL, HTML, CSS

**Frameworks:** React, Django, Node.js, Express, Vue.js, React Native, Redux, Flask

**Tools:** PostgreSQL, Docker, Kubernetes, Jenkins, Kafka, Redis, AWS, MongoDB, Datadog

## EXPERIENCE

### Trustwave

Jan 2023 - Apr 2023

Software Engineer Intern

Chicago, IL

- Led cross-team initiative to migrate cybersecurity service and [Jenkins](#) pipelines to [Python3](#), and integrated [Datadog](#) with [AWS EC2](#) instances to improve backend service processing performance for [5,000+](#) customers
- Rebuilt architecture for incident threat processes using [Go](#), [Kafka](#), and [Elasticsearch](#), handling [10 million](#) data points daily via load balancing, analysing data streams in real-time, resulting in [40%](#) reduction in job time
- Advocated and improved access control response time by [90%](#) with self-managing [Redis](#) cache for frequently accessed items, using [SQLAlchemy](#) for high-level database interaction with [Postgres](#)

### Electro Source

May 2022 - Aug 2022

Software Developer Intern

Toronto, ON

- Shipped [Express](#) API layer, reducing response time by [85%](#) to update and delete action items stored in [MongoDB](#)
- Achieved [70%](#) reduction in page load time by creating [Docker](#) container to deploy [Redis](#) in-memory cache instance
- Enhanced mobile app security by addressing [25+](#) vulnerabilities in [React Native](#) by analyzing OWASP Top 10 reports
- Created [secure password reset flow](#) with reset tokens, IP address, and confirmation emails using Sendgrid's Email API

### Elekta

Sep 2021 - Dec 2021

Software Developer Intern

Sunnyvale, CA

- Optimized software license production by [20x](#) via [Java](#)-based dashboard for [600+](#) hospitals, cutting infra costs by [33%](#)
- Revamped [Spring Boot](#) image API by splitting into microservices to minimize response time by [60%](#) using [GraphQL](#)
- Reinforced [C++](#) image processing algorithms for linear accelerators to enhance image quality, increasing patient outcome accuracy by [54%](#) in radiotherapy processes

### Delhi Public School

Sep 2018 - Jun 2019

Software Engineer

Kuwait

- Designed cloud ERP apps on iOS and Android for streaming lectures in real-time, with in-app note-taking service
- Created extensible mobile apps using [Swift](#) and [SwiftUI](#) for iOS, and [Kotlin](#) and [Android Studio](#) for Android platforms
- Built upon multi-tier architecture and received [10,000+](#) downloads with over [4 million](#) monthly active user visits

## PROJECTS

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

- Rearchitected web app to help [8,000+](#) UWaterloo students plan degrees based on majors, minors, and options
- Established prototype using [Django](#) and created [Docker](#) microservices container, automating build and deployment

**Spotify Profile** [↗](#) | [React](#), [Express](#), [Reach Router](#), [Spotify API](#), [Styled Components](#)

- Utilized [Spotify API](#) to retrieve user data, including top artists, top tracks, recently played tracks, and detailed audio information for each track
- Implemented playlist recommendation system, using algorithms to analyze user playlists and suggest new tracks

**EmotionLens** [↗](#) | [Python](#), [OpenCV](#), [Keras](#), [NumPy](#), [Flask](#), [TensorFlow](#), [Jupyter Notebook](#)

- Developed full-stack application that recognizes facial expressions from webcam or uploaded video using neural network trained on [40,000+](#) images and unique expressions
- Implemented validation bunching and representation learning to create model with [84%](#) recognition accuracy