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, JavaScript, Go, TypeScript, C++, Java, Kotlin, SQL, HTML, CSS
Frameworks: React, React Native, Redux, Express, Node.js, Flask, Django
Tools: AWS, PostgreSQL, Redis, Kafka, Elasticsearch, MongoDB, Docker, Kubernetes

EXPERIENCE

Trustwave   Jan 2023 - Apr 2023
Software Engineer Intern - Cybersecurity   *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
- Improved app response time by 30% by creating Docker container to deploy Redis in-memory cache instance
- Enhanced app security by addressing over 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 to enhance image quality and remove noise for 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*
- Rearchitectured 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