Rohan Minocha

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Technical Skills

Languages	Python, Java, JavaScript, HTML/CSS, Kotlin, C++, SQL
Technologies	React.js, Express.js, Node.js, Flask, Django, Redux
Tools	AWS EC2/S3, PostgreSQL, Redis, Kafka, Elasticsearch, MongoDB, Docker, Kubernetes

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 1000+ clients
- Designed and realized architecture to resolve processes using Go, Kafka and Elasticsearch, handling 10 million data points daily, analysing data streams in real-time, resulting in 40% reduction in processing time
- Advocated and improved access control response time by 90% with self-managing Redis cache for frequently accessed data and using SQLAlchemy for high-level database interaction with Postgres

Electro Source   May 2022 - Aug 2022
Software Developer Intern   *Toronto, ON*
- Shipped Express.js API layer, reducing response time by 85% to update and delete 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 25+ vulnerabilities in React Native by analyzing OWASP Top 10 reports
- Reduced manual testing load by 20% by creating automated tests to ensure notifications and error headers validity

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 Intern   *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 8000+ UWaterloo students plan degrees based on majors, minors, and options
- Established prototype using Django and created Docker microservices container, automating build and deployment
- Implemented Google OAuth using Firebase Authentication, allowing users to store and retrieve data from accounts

Spotify Profile ⧉ | *React.js, Express.js, 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 a full-stack application that recognizes facial expressions from a webcam or uploaded video using a neural network trained on 40,000+ images and unique expressions
- Implemented validation bunching and representation learning to create a model with 84% recognition accuracy

Crypto Logix ⧉ | *React.js, Redux, Chart.js, REST APIs, Ant Design*
- Developed progressive web app to display real-time cryptocurrency statistics using Rapid API and Bing Search API
- Engaged 350+ students in UW Blockchain Club to learn cryptocurrency and escalated pageviews by 20% through integrating voice assistant using Alan AI API for user-friendly onboarding process

Education

University of Waterloo   Sep 2020 — Apr 2025
Bachelors of Computer Science   *Waterloo, ON*
Relevant Coursework: *Data Structures, Algorithms, Object-Oriented Programming, User Interfaces*