

Omar Hussein

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Summary — Software Engineer with expertise in full-stack development, microservices, and cloud solutions. Proficient in multiple programming languages and tools, with a passion for performance, scalability, automation, and code structure. Known for problem-solving, teamwork, and an eagerness to learn new skills and technologies.

Skills & Technologies

Languages JavaScript, Typescript, Go, Python, Java, PHP, Bash, SQL, HTML, CSS	Libraries Redux, MaterialUI, Tailwind, Shad/CN, Pandas
Databases MySQL, Postgres, MongoDB, DynamoDB, Redis	Cloud AWS, Azure, GCP, Linux, Docker
Frameworks Node.js, React.js, Next.js, Express.js, Vue.js, Nuxt.js, OpenCV, Selenium	Utilities Git, GitHub, BitBucket, Figma, WordPress, Jenkins, Jira, MS Word, Excel
	Marketing GA4, Ubersuggest, Google Ads, Facebook Ads

Experience

Web Developer (Full-Time)

Jun 2024 – Nov 2024

K'awat'si Economic Development Corporation (KEDC)

Port Hardy, BC

- Managed and maintained a portfolio of **14 business websites** focusing on e-commerce, education, and online services for indigenous communities in British Columbia
- Collaborated with business owners to **translate goals into effective web solutions**, ensuring an engaging experience
- Utilized Google Analytics, Ads, Search Console and Ubersuggest, to enhance business online presence and visibility
- Reduced average site load times from over **4 seconds to under 1 second**, significantly boosting user engagement
- Automated data collection and reporting, cutting analysis time from **4 hours to 20 minutes**
- Enhanced cybersecurity measures, **reducing incidents by 40%** and improving resilience against cyber threats

Web Developer (Co-Op)

Jan 2024 – Apr 2024

Ontario Treasury Board Secretariat

Toronto, ON

- Developed and aided in migration of internal CMS with **170K+ users and 25M+ monthly requests** from WordPress to custom Go API managed by Docker/Kubernetes cluster
- Spearheaded internal API upgrade from **Go v1.13 to v1.22** ensuring industry standard compatibility
- Collaborated with team members to modularize Go code, streamlining the codebase and reducing technical debt
- Developed Bash script to automate synchronization of local Go tools with docker image for IDE support
- Implemented **web accessibility** standards using Vue.js resulting in more user-friendly interfaces

Full Stack Developer (Co-Op)

Apr 2023 – Aug 2023

Sun Glow Window Coverings

Toronto, ON

- Enhanced numerous e-commerce websites, cloud services, and built ETL tools to seamlessly integrate commerce data with manufacturing and warehousing software
- Led B2B site migration **from PHP/jQuery to Next.js**, achieving substantial usability and performance improvements
- Deployed Node.js microservice with React.js admin panel to dynamically calculate material cost based on user input
- Overhauled B2C site React.js UI and Express.js API resulting in a **20% loading time decrease** and **40% traffic increase**
- Revived wholesale site by automating order processing and enhancing manufacturing ETL workflows using Python

Full Stack Developer (Part-Time)

Mar 2023 – Jul 2023

Seneca Innovation Labs

Toronto, ON

- Led the development of a community center management application, enabling automated record collection and real-time analytics for distributed access
- Established industry standard code structure and practices to ensure project **maintainability and scalability**
- Transformed Excel tools into an Express/React.js app with automated features and live data visualization updates
- Developed MySQL encrypted database backup and recovery utilities to ensure data integrity and privacy
- Coordinated with IT staff to test the app locally prior to cloud deployment, ensuring a reliable transition

Full Stack Developer (Contract)

Mar 2022 – Sep 2022

EK Tech Solutions

London, ON

- Designed and implemented a web scraper to identify sales leads and market trends for corporation-wide ETLs
- Automated collection and analysis of resources in Postgres, reducing a **2-hour task per week to 10 minutes**
- Achieved a **35% improvement in website loading times** by optimizing visual asset compression
- Collaborated on developing internal Python automation tools to boost team productivity

Education

Honors Bachelor of Technology in Software Development (3.9/4 GPA)
Seneca College

2020 – 2024
Toronto, ON

Achievements

- President’s Honor List for **6 semesters**
- **1st place** in MERN stack UI/UX competition among 46 participants
- **Tutored 5 - 7 classmates** each semester resulting in visible grade improvement

Projects & Open-Source Contributions

File Browser (Open-Source Project)

2023 – Present

- Contributed to 50% of the migration to Vue3
- Created custom context menu with actions for file list view
- Translated the application to the Arabic language

WellSphere AI (Ontario Public Service/Microsoft AI Hackathon)

2024

- Developed Azure Copilot assistant for mental health and wellness monitoring to aid employees at work
- Created Power Pages UI for users to interact with AI model
- Integrated PowerBI dashboard to showcase user health metrics over time

Computer Vision Facial Tracking Joystick (Seneca College)

2023

- Designed and created facial tracking model using Python, OpenCV, and MediaPipe for users with motor disabilities
- Enabled users to control a virtual joystick based on the relative eye, nose, and mouth positions
- Collaborated with a team to develop an interactive memory game leveraging the facial tracking system

RFID Door Access Management System (Seneca College)

2022 – 2023

- Developed ABAC system in Express.js and MongoDB for fine-grained control in high-security environments
- Built React User and Admin portals for management and analytics
- Assembled hardware and wrote Python code to enable RFID gateways

HR Helper System (Markham/Stouffville Hospital Hackathon)

2021

- Developed and deployed demo for natural language document search engine
- Integrated AI chat-bot to allow users to interact with NLP engine
- Streamlined HR processes by enabling easy document search based on descriptions and keywords