

Omar Hussein

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Summary — Software Developer with expertise in web 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

K'awat'si Economic Development Corporation (KEDC)

Jun 2024 – Nov 2024

Web Developer (Full-Time)

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

Ontario Treasury Board Secretariat

Jan 2024 – Apr 2024

Web Developer (Co-Op)

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

Sun Glow Window Coverings

Apr 2023 – Aug 2023

Full Stack Developer (Co-Op)

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

Seneca Innovation Labs

Mar 2023 – Jul 2023

Full Stack Developer (Part-Time)

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

EK Tech Solutions

Mar 2022 – Sep 2022

Full Stack Developer (Contract)

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

Seneca College <i>Honors Bachelor of Technology in Software Development (3.9/4 GPA)</i> Achievements <ul style="list-style-type: none">– 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	2020 – 2024 Toronto, ON
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Projects & Open-Source Contributions

File Browser (<i>Open-Source Project</i>) <ul style="list-style-type: none">– 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	2023 – Present
WellSphere AI (<i>Ontario Public Service/Microsoft AI Hackathon</i>) <ul style="list-style-type: none">– 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	2024
Computer Vision Facial Tracking Joystick (<i>Seneca College</i>) <ul style="list-style-type: none">– 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	2023
RFID Door Access Management System (<i>Seneca College</i>) <ul style="list-style-type: none">– 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	2022 – 2023
HR Helper System (<i>Markham/Stouffville Hospital Hackathon</i>) <ul style="list-style-type: none">– 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	2021