Dawson Vo

647-620-3290 | vo.dawsonlc@gmail.com | dawsonvo.ca/ | linkedin.com/in/dawson-vo |

Education

Toronto Metropolitan University — Toronto, ON
Bachelor of Science, Computer Science (B.Sc.) — *Sep. 2018 – Apr. 2023*
CGPA: 4.03/4.33 (Dean's List)

Experience

Software Developer — Sep. 2023 – Present
iControls Inc. — *Richmond Hill, ON*

- Developing an IoT hub system to enable commercial clients to monitor their fleet of iControls door operators in real-time with analytics using Raspberry Pi as a local webserver and ESP-32 Wi-Fi modules for communication
- Provide comprehensive technical support to clients encountering challenges with iControl door operators, handling software issues, performing electrical diagnostics (resistance/voltage testing), and customizing operators for non-standard applications.
- Helped Design and 3D-Printed Prototype Hardware for iControls Door Operators and Traffic Lights using Shapr3D CAD Software

DevOps Engineer Intern — Jan. 2022 – Aug. 2022
CaseWare International Inc. — *Toronto, ON*

- Spearheaded an initiative to develop a self-serve web app called IDP for internal teams to manage canary and production deployments of their product applications.
- Developed comprehensive unit tests for IDP's front-end and backend using Jest, Cypress and Golang which included mocking AWS requests.
- Improved CICD pipeline automation by combining two distinct pipelines for deploying client and backend apps, and refactored cleanup bash scripts for canary deployments, resulting in a decrease of simultaneous resource usage by 40%.

DevOps Engineer Intern — May 2020 – Dec. 2020
CaseWare International Inc. — *Toronto, ON*

- Optimized Jenkins and Bamboo jobs which reduced build/test times for Simple Engagement, one of CaseWare's main products, by up to 40%.
- Led a project to implement New Relic's monitoring and alerting system to the Bamboo CICD system enabling the DevOps team to be proactive in addressing imminent issues.
- Reconfigured old CICD build jobs to use AWS ECR, Secrets Manager and S3 buckets to enable the team to easily rotate secrets and update product versioning.
- Developed webhooks using AWS API Gateway and Lambda to bridge external builds from GitHub Actions to CaseWare's internal network of Bamboo build agents.
- Coordinated with IT to migrate all local Bamboo build agents to new upgraded hardware which further reduced build times and improved agent reliability.

Projects

Instagram Grid Planner | *HTML, JavaScript, CSS, Dropzone.js* — Try Here July 2023

- A drag and drop mockup of Instagram's profile page that allows a user to preview how their feed would look when their images are cropped into a square grid.

Tower Defense Game | *C++, OpenGL* — Source Dec 2021

- A simple tower defense game where all models are built manually using simple OpenGL shapes using hierarchical modeling concepts.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, TypeScript HTML/CSS, GoLang
Frameworks: Angular, Node.js, Tornado
Developer Tools: GitHub Actions, Atlassian Bamboo, Jenkins, Terraform, Kubernetes, Docker, Amazon Web Service (AWS), New Relic, VS Code, Visual Studio, Citrix XenServer, Postman
Other Tools: Atlassian JIRA, Atlassian Confluence, Shapr3D, Adobe Photoshop, Adobe Premiere Pro