Experience

D2L Corporation Toronto, Ontario

SOFTWARE DEVELOPER, AMAZON AWS, TERRAFORM, MYSQL, NOSQL, DOCKER, NODE.JS, REACT

Sep. 2021 - Dec. 2021

- · Provisioned production and development AWS infrastructure using Terraform, which narrowed IAM permissions by 50% and reduced RDS timeouts by 97%
- Refactored the main functionality of Automa2n (a workflow engine for generating activities dynamically within Brightspace)'s Lambda functions to be more efficient, and added new functionality such as scheduled and delayed actions using Amazon SQS and DynamoDB
- · Wrote tools to locally mock AWS services such as SQS, DynamoDB TTL, and Sam which reduced bugs and the amount of testing on development and production by a significant amount
- · Built automated and dynamic CI/CD pipelines with Github Actions, using composite actions and reusable workflows

Bolt Bootcamps 🗹

TECHNICAL DIRECTOR, NODE.JS, GRAPHQL, POSTGRESQL, VUE.JS, MICROSOFT AZURE

Jul. 2021 - Present

- · Developed a user-friendly frontend dashboard in Nuxt.js for students to apply to BOLT's events, and for organizers to manage BOLT events and applicants
- Implemented a Node. is GraphQL backend server with PostgreSQL for managing frontend interactions, which holds 100+ users and events
- Deployed frontend and backend with Azure App Service and Azure DevOps for CI/CD

ToHacks 🗹 Toronto, Ontario

DEVELOPER, TYPESCRIPT, NODE.JS, FIREBASE (NOSQL), REACT, OPENAPI

Jul. 2021 - Present

- · Modernized the hackathon dashboard experience by adding events management and statistics pages, as well as restructuring existing code via React, which reduced the number of API calls by 60%
- Implemented overall Firebase logic and database design for the hackathon judging web app
- Wrote tests using Mocha and Chai for Express TypeScript backend servers, and setup continuous delivery using Heroku

Projects

ShopAdvisr - Smart Shopping App 🗹

Hack the Valley V

JAVASCRIPT, PYTHON

Sep. 2021

- Leveraged React Native mobile app to create a smart shopping app for Loblaws, which won \$200 worth of prizes
- Implemented a Flask server to handle image recognition with Google Vision and subject detection in voice using Assembly AI

SubSpace - Cloud Collaboration 🗹

Hack The North 2020 ++

VUE.JS, NODE.JS

Jan. 2020

- · Developed a way to remotely deploy and share virtual machines with coworkers on the browser which won the Finalist Award, placing top 24 out of 3000+ participants
- · Used Node.js, NoVNC for the registration, sharing, and live collaboration logic, displayed on Vue.js frontend

Discourse VR - VR Multiplayer Debate

HackKU 2021

UNITY, C++, VUE.JS, NGINX, CLOUDFLARE

Apr. 2021

- · Developed a multiplayer solution for virtual parliamentary debates using Mirror and Mixed Reality Headset through Unity
- Deployed web app built in Vue.js and TailwindCSS to display recordings and live feedback chat which were configured through Nginx and Cloudflare

WidgetHub - Customizable Social Widgets 🗹

EngHack 2021

TypeScript, GraphQL, React, PostgreSQL

- · Created frontend using React, and implemented over 10+ customizable options for lightweight widgets that can be put on any website
- Leveraged GitHub and Devpost APIs for widget to contact TypeScript GraphQL backend

Honors & Awards

2020 René Descartes National Scholarship, \$25,000 Math Scholarship awarded to less than 10 students Waterloo, Ontario

2020 Loran Scholar Semi-Finalist, Selected from 5000+ applicants based on character, service and leadership

Education

University of Waterloo

Waterloo, Ontario Sep. 2020 - Aug. 2025

CANDIDATE FOR HONOURS COMPUTER SCIENCE WITH DIGITAL HARDWARE SPECIALIZATION

· 4.0 GPA (93.05%)