

SOFTWARE ENGINEER · FULL-STACK DEVELOPER · CODING ENTHUSIAS

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## Experience \_\_\_\_\_

#### **Full-Stack Software Engineer**

Toronto, Canada

April 2018 - April 2021

SPECIAL OLYMPICS ONTARIO

- Primary engineer working on the Healthy Communities Web Platform
- Developed the front-end using the VueJS framework alongside HTML, JavaScript and CSS
- Developed a RESTful API using a NodeJS server with the ExpressJS framework
- Developed and maintained a MySQL database
- Developed and maintained the DevOps infrastructure using Github Actions + Docker
- Developed and maintained the Cloud Infrastructure on Microsoft Azure
- · Conducted the hiring process for finding new interns, from the screening to the onboarding

QA Engineer Intern
Toronto, Canada

CHEFHERO

May 2019 - Aug 2019

- Worked on building the integration testing suite using the k6 framework (written in JavaScript)
- Improved code quality by making existing tests atomic
- Created and improved jenkins pipelines used for running integration tests
- Found and documented issues in the backend python code
- Performed manual QA via postman and the front-end directly

# **Projects**\_

Software Lead Toronto, Canada

**ENGINEERING CAPSTONE (ENG4000)** 

Sept 2020 - April 2021

- Software Lead for developing a web-based energy management system (EMS)
- Developed a front-end using React
- Developed a RESTful API using Node.js + Express
- Developed an extensive Python simulation, which simulates several energy systems including Battery-Energy Storage Systems, Multi-Unit Residential Buildings, and EV chargers + their car-flow
- Developed a powerful Python machine-leaning function using sklearn, which predicts future EV charger usage based on historic data
- Developed the cloud-infrastructure using Docker + AWS services including EC2, ECS, ECR, S3, CloudFront, and CodePipeline

### Skills

Front-End Development VueJS (Vuex, Vue CLI, Vuetify), ReactJS (Redux, MaterialUI), HTML, JavaScript, TypeScript, CSS

**Back-End Development** Node.js/ExpressJS, Python (functional and object-oriented), RESTful APIs

**Database Development** SQL (MySQL, Postgres), NoSQL (MongoDB)

Cloud Infrastructure AWS (EC2, ECS, ECR, S3, CloudFront, CodePipeline), Azure (App Service, Container Registry), Google Cloud

**DevOps** Docker, CI/CD pipelines (Github Actions, Jenkins)

**QA and Testing** Postman, k6, Mocha + Chai, Selenium

**Machine Learning** sklearn + pandas, MATLAB

Other Languages C, C++, Java, Golang, Bash, Verilog, VHDL

### Education

### Bachelor of Engineering (BEng) in Electrical Engineering

Toronto, Canada

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY

Expected April 2021

March 23, 2021 Basil Mahmood · Résumé