

TAHA MIAN

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🎓 EDUCATION

McMaster University, *Software Engineering* BEng

2014 – 2019

⚙️ SKILLS

Programming Languages: Python, JavaScript, Golang, C/C++, Java, HTML/CSS, SQL
Middleware/Frameworks: Docker, Node.js, GraphQL, Electron, Vue.js, Terraform, Flask
Concepts: TDD, Infrastructure as code, OOP, SOLID, , Design Patterns

💼 WORK EXPERIENCE

Applications Engineer, *Evertz Microsystems*

May 2019 – Present

- Developed a full stack application that provisions, and configures virtual machines for various cloud platforms (**VMWare**, **AWS**, etc.) for deploying Evertz products to the cloud.
- Application front end written in **React** and uses **GraphQL** API to communicate with **Flask** back end, virtual machine deployment was done using **Terraform** and **cloud-init**.
- Introduced **container orchestration** to product team of existing cloud-based Evertz application using **Kubernetes**, and deployed it to the VMware.
- Developed a customer facing reporting tool in **Vue.js** to visualize and compare channel configurations.

Software Engineering (CO-OP), *Loblaws Companies Limited*

May 2017– April 2018

- Created a Web App using **D3.js**, and **Vue.js** that models batch processes in PC Bank as a graph for ease of viewing.
- Introduced **DevOps standards** for future projects by enforcing basic industry standards, including the use of **continuous integration**, **Jenkins** for automating builds, and **Jira** for issue tracking.
- Improved efficiency of the production support team by creating database driven application solution which automated the documentation and reporting of production issues.

👥 RELEVANT PROJECTS

[SwarmBot](#)

C++

PYTHON

Sep 2018 – Apr 2019

- In a group of 5, created a swarm of autonomous robots designed to take measurements over large areas.
- Was responsible for the communication system on both the autonomous robots and server.
- Used **Python** for server side, and **C++** for robots to communicate over WiFi using web sockets.

[Auto Grader](#)

PYTHON

GO

Jul 2018 – Sept 2018

- Lead a team of three, to develop a full stack application that grades python assignments.
- Currently used by the Department of Engineering at McMaster University for over 140 first year students.
- Tests are run in docker containers, for isolation, that are spun up by the server when a student makes a submission.
- Configured to deliver custom feedback by flagging and addressing common errors to help facilitate learning.

[TorrentVue](#)

JAVASCRIPT

Sept 2018 – Dec 2018

- Designed a user front end for the common torrenting client using **Vue.js** and **Vue Bootstrap**.
- Used **Electron** framework to make a **cross platform desktop** application.
- Conducted usability tests and surveys to improve UI/UX design.

[The Cursor Bar](#)

PYTHON

JAVA

Jan 2017

- Developed an Android application that uses **TCP/IP** Protocol to connect with a Python server hosted on a Windows machine.
- Uses phone as a quick toggle to open programs such as Notepad and Windows Explorer and uses keyboard shortcuts like copy/paste.