

Michael Lam

Third Year Computer Science Student



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SKILLS

Programming Languages: C, Java, PHP, HTML5/CSS3, JavaScript, TypeScript

Frameworks: React, Gatsby

Tools: Node.js, Git, CI/CD, Postman, jQuery, Express, MySQL, MongoDB, Gitflow, Styled Components, Framer Motion, Firebase, Docker, VSTS

WORK EXPERIENCE

Tulip

Sept. 2021 – Dec. 2021

Software Developer Intern

Kitchener, ON

- Developed the API for Tulip iDevices for the Adyen Payment API integration feature using **PHP**, maintained with unit tests written in **Python**
- Developed and assisted in designing the database structures for Tulip iDevices using **MySQL**
- Optimized various **MySQL** queries and reduced the time complexity of multiple functions to improve the performance of the Assisted Selling application
- Cleaned up numerous functions to reduce errors and warnings in **GCP** logs for a major API container by approximately 90%
- Used **Postman** to test APIs, and managed and organized tickets through **VSTS**

PROJECTS

Ikigai

Dec. 2021 - Present

- Developing a full-stack gamified productivity web-app in **React** that allows users to create daily to-dos, build habits and reflect on oneself - joined by a reward system
- Implementing back-end **RESTful** design principles in **Express** to support **CRUD** functions with the help of **MySQL**
- Utilizing **JWT** and **bcrypt** for user authentication, **Framer Motion** and **Styled Components** for an intricate UX and responsive UI

mlammy

Dec. 2021 – Jan. 2022

- Developed a responsive and robust single page web-based portfolio to showcase personal work and experience
- Implemented **Framer Motion**, and **Styled Components** to create an intricate UX and responsive UI
- Built using **React** and **TypeScript**, deployed using **Netlify**

Dogedex

Dec. 2021 – Dec. 2021

- A web application built for a company wide **Hackathon** using **React** and the **ml5.js** library
- Pass in an image of a dog and a machine learning model determines the type of breed the dog is with a percentage of confidence

mBot

Mar. 2020 – Jul. 2020

- Developed a Discord bot using **JavaScript**, **Node.js**, and the **Discord.js API**, hosted using **Heroku**, used on multiple private servers
- Contains various commands by making use of the **Discord.js API**, allowing the use of sending, receiving, and storing data to and from **MongoDB**
- Improved personal user and moderator experience by implementing convenient moderation, server commands, games, and an economy system

EDUCATION

University of Guelph

Sept. 2019 – Present

Bachelor of Computing, Computer Science (Co-op)

Guelph, ON

- Major CGPA: 4.0/4.0 (89%), Overall CGPA: 4.0/4.0 (89%)
- Dean's Honours List (2019-2022) – Achieved through earning an 80% average or above