MICHAEL LAM

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LinkedIn | **GitHub** | **Website**

EDUCATION

UNIVERSITY OF GUELPH   Guelph Ontario, CA
Bachelors of Computing in Computer Science   2024
- Major CGPA: 4.0/4.0 (89%), Overall CGPA: 4.0/4.0 (89%)
- Awarded $3000 entrance scholarship
- Dean's Honours List (2019-2023) - Achieved through earning an 80% average or above
- Relevant Coursework: *Data Structures, Algorithms, Artificial Intelligence, Software Systems Development and Integration, Operating Systems, Software Engineering*

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Java, JavaScript, TypeScript, HTML, CSS, PHP, Go, SQL
- **Frameworks**: React, Express, Node.js, Prisma
- **Other**: PostgreSQL, MySQL, MongoDB, Docker, Jest, styled-components, Git, Postman, VSTS

EXPERIENCE

Cutsbyjz   **Guelph, ON**
Freelance Full-stack Developer   11/2022 -**Present**
- Collaborating with a partner to create a custom barber website, tailored to meet specific client needs
- Developing the appointment booking system using technologies such as Express, PostgreSQL, and Prisma for the API, providing a robust platform for scheduling appointments, unit tested with Jest.
- Implemented a CircleCI pipeline to streamline the development process to automate testing to ensure code quality
- Managed and organized the project through the use of GitHub, with tickets being created and tracked to ensure that all tasks are completed efficiently and effectively

Tulip   **Kitchener, ON**
Software Developer Intern   09/2021 - 12/2021
- Successfully developed the API for Tulip iDevices to integrate with the Adyen Payment API using PHP, with unit tests written in Python to ensure stability and reliability
- Designed and implemented database structures for Tulip iDevices using MySQL
- Improved the performance of the Assisted Selling application by optimizing various MySQL queries and ensuring a fast and reliable service
- Implemented a monitoring system using Grafana to proactively address issues and alert in the event of extended API downtime
- Significantly reduced errors and warnings in GCP logs for a major API container by approximately 90% through the cleanup of numerous functions
- Contributed to the team's success by assisting in the onboarding process of 3 new members to the Checkout Team
- Used tools such as Postman for API testing and VSTS for task management to enhance the development process and ensure efficient project execution

PROJECTS

Kaizen   12/22 -**Present**
Productivity web-app (React, TypeScript, Express.js, PostgreSQL, Prisma, CircleCI, Jest)
- Developing a mental-health centered productivity web-app that aims to empower users to take control of their well-being
- Kaizen focuses on the concept of positive habit formation and provides a platform for users to create, track, and manage their daily tasks, to-dos, habits, and rewards
- Incorporated a unique reward-system that mimics the concept of *temptation-bundling* to motivate users to complete their tasks and form positive habits by linking them with desireable rewards

mlammy   **11/22 - 12/22**
Personal portfolio (React, TypeScript, styled-components, Netlify)
- ○ Created an engaging and dynamic webpage that effectively showcases personal work & experience with a responsive and robust design
- ○ Utilized Styled Components to design an intuitive user experience and visually appealing, responsive user interface optimized for both desktop and mobile devices

Ukiyo   **05/21 - 05/21**
Recipe web-app (React, Express.js, MongoDB)
- ○ Designed a full-stack web-app where users can share personal food recipes by entering step-by-step instructions and any other relevant information
- ○ Users can browse and view other food recipes submitted by other users

mBot   **05/2020 - 07/2020**
Discord bot (JavaScript, Node.js, Discord.js, MongoDB)
- ○ An interactive Discord bot utilized on multiple private servers leveraging the Discord.js API to provide a range of useful commands to enhance personal user and moderator experience
- ○ Key features include convenient moderation tools, useful server commands, engaging games, and an economy system that rewards users for their chat activity