

## EDUCATION

### MCMASTER UNIVERSITY

B.S. SOFTWARE ENGINEERING AND CO-OP

## AWARDS

Dean Honor Award

McMaster President Entrance Award,

## SKILLS

### LANGUAGES

C# • Python • SQL • HTML • CSS

Javascript • PHP •  $\text{\LaTeX}$

### TOOLS & PLATFORMS

Git • MySQL • Docker • .NET

Flask • AWS • Windows Forms

Jira

### DESIGN

MVC Architecture • Object-Oriented Design

Microservices Architecture • REST API/Services

## WORK EXPERIENCE

### TECHNICAL PROGRAM MANAGER | FROM MAY 2022 TO JAN 2024

AMD | Remote

- Coordinated cross-functional teams consisting of software product managers, software marketing managers, and developers to ensure effective collaboration and communication throughout the lifecycle.
- Developed a full stack application that automated task extraction via Jira's REST APIs, generated dynamic Gantt charts, and facilitated real-time project adjustments for enhanced tracking and stakeholder engagement.
- Automated a solution to detect and catalog lifecycle discrepancies at various stages of the development process. Streamlined project oversight by ensuring that key checkpoints were flagged for review, enhancing efficiency and reducing project delays.

### SOFTWARE DEVELOPER INTERN | FROM JAN 2021 TO AUGUST 2021

SQL Diagnostics | Toronto, ON

- Identified and resolved critical software-to-hardware communication bugs in Hamilton robots performing Covid-19 Antibody Testing. Improving system diagnostics by implementing comprehensive event logging, including detailed time stamps and thread information, enabling faster issue identification and resolution.
- Full stack development of a custom Windows update manager application, providing users enhanced control over delaying, executing, or blocking Windows updates, surpassing the flexibility native to the operating system. Overcoming significant compatibility challenges posed by evolving Windows 10 security protocols.
- Developed and deployed multiple installer executables utilizing Windows Forms and Windows Presentation Foundation (WPF) for various internal applications. Leveraging .NET framework and advanced UI design to optimize installation experiences.

### SOFTWARE ENGINEER INTERN | FROM MAY 2020 TO DECEMBER 2020

Adlib Software | Burlington, ON

- Performed a wide array of tasks, including debugging, feature development, and software testing, showcasing strong problem-solving abilities.
- Successfully implemented Google Protocol Buffers for data serialization, replacing JSON to improve both memory usage and processing efficiency. Achieving significant performance optimization across two distributed systems, ensuring seamless backward compatibility with existing codebases.
- Operated within an Agile framework, actively participating in Test-Driven Development (TDD) and pair programming to ensure high-quality, maintainable code.
- Demonstrated a high level of autonomy and proactive ownership over project responsibilities, with minimal oversight required.

### PROGRAMMING INSTRUCTOR | FROM SEPT 2018 TO SEPT 2019

McMaster University | Hamilton, ON

- Instructed over 50 students in the ELM functional programming language across two different schools, under the supervision of Dr. Anand and in collaboration with fellow software engineering students.
- Developed an educational math game from scratch using the ELM functional programming language, adhering to user-centered design principles and following Model-View-Controller (MVC) design pattern.

## PROJECT & COURSES

### WEB SYSTEMS AND WEB COMPUTING

- Project-based course involving server-side programming: databases, dynamic languages; client-side programming: markup, styles, scripts, design, mobile/desktop.
- Completed the course with an A+.