

Ali Zafar Mohammad

Hamilton, ON | (365)-888-6857 | mohaa143@mcmaster.ca | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Computer Science student at McMaster University with experience in software development, web technologies, machine learning, and cloud platforms. Proficient in Python, C, C++, Java, JavaScript, HTML/CSS, and SQL, with projects in application development, automation, and data-driven systems. Strong foundation in data structures, distributed systems, and testing, with the ability to adapt skills to real-world challenges.

SKILLS

- **Web Development:** JavaScript (ES6+), React.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Redux (state management), Responsive Design, UI/UX design principles
- **Programming & Backend:** Python, C/C++, Java, Node.js, Django REST, SQL, PostgreSQL, MySQL, Adonis JS
- **APIs, Cloud & Systems:** REST API Design, JSON, AWS (EC2, S3, RDS), Linux/Unix, npm, Git/GitHub, CI/CD pipelines, Docker
- **Testing, Tools & Collaboration:** Unit Testing, Debugging, Jupyter, Agile Scrum, Jira, Code Reviews, Documentation

EXPERIENCE

Software Developer Intern – Niwish

May 2025 – September 2025

- Built and deployed **JavaScript/Node.js APIs** and integrated them with **React.js front-end components** for a referral and rewards platform, ensuring reliability and responsiveness.
- Developed **automation scripts** for transaction validation and reward distribution, reducing manual effort by 30% and improving system accuracy.
- Collaborated in Agile sprints, delivering presentations, documentation, and updates to cross-functional stakeholders.

Software Team member – McMaster Robo Sub (University Club)

February 2025 – Present

- Trained AI models and optimized performance for real-time robotics, demonstrating problem-solving under constraints.
- Collaborated in a student-led team environment, contributing to planning, documentation, and stakeholder presentations.

Software Developer Intern – KUWAITNET

June 2024 – September 2024

- Developed and maintained Python/Django REST APIs with SQL databases, ensuring **secure storage and retrieval of sensitive client data**.
- Designed and implemented **front-end pages in React.js, HTML5, and CSS3**, assisting the UI/UX team to improve user experience and accessibility.
- Deployed applications on **AWS with CI/CD pipelines**, reducing deployment errors and improving data accessibility.

PROJECTS

AI powered nutritional label scanner

- Built an **OCR pipeline using Google Vision API + Gemini API** to extract nutrition text into structured formats.
- Implemented error-handling and validation workflows to ensure **data accuracy and traceability**.
- Documented outputs and processes, simulating **forensic-style audit documentation**.

News Aggregator Platform

- Built a **full-stack app with Django REST + React.js**, aggregating and displaying real-time news.
- Designed **data pipelines and web scrapers**, storing results in **SQL** and serving them to the front end in **JSON** format.
- Optimized for **scalability, usability, and performance**, ensuring reliable delivery of high-volume data.

EDUCATION

McMaster University

Hamilton, ON

Bachelor of Applied Science in Computer Science

Expected Graduation December 2026