

# Maruf Hossain

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## EDUCATION

### Wilfrid Laurier University

Waterloo, ON, Canada

*Bachelor of Science in Computer Science & Mathematics*

*Winter 2023 – Present*

- Selected Coursework: Algorithms, Operating Systems, Computer Networks, Databases, Machine Learning, Discrete Mathematics, Linear Algebra II, Probability & Statistical Inference, Optimization
- Activities: Operations Lead, Laurier Muslim Students' Association; VP Operations, Laurier Cricket Club

## EXPERIENCE

### VP of Engineering

Oct. 2025 – Present

*Aippa Health (Stealth AI Startup)*

*Waterloo, ON, Canada*

- Led architecture and development of AI-powered backend services using **FastAPI** and **PostgreSQL**, enabling secure data ingestion, model inference pipelines, and internal APIs
- Owned backend system design and cloud deployment decisions for an early-stage healthcare platform, balancing rapid iteration with reliability, data integrity, and security requirements

### Software Engineering Intern

May 2025 – Aug. 2025

*Sony Interactive Entertainment*

*California, USA (Hybrid)*

- Built and enhanced internal backend tools using **Python** and **REST APIs**, supporting production workflows used by multiple engineering teams
- Implemented and maintained **CI/CD pipelines** to automate testing and deployment, improving reliability and reducing manual release overhead for internal services

### Software Engineering Intern — Connected Car Systems

Apr. 2024 – Jul. 2024

*Mitsubishi Motors Corporation*

*Hybrid*

- Developed and maintained production vehicle connectivity and telematics components using **Python** and **C++** within safety-critical automotive systems

### Chief Technology Officer

Oct. 2023 – Jul. 2024

*Qalam Consulting*

*Waterloo, ON, Canada (Remote)*

- Led a small engineering team delivering client-facing full-stack solutions using **React** and **Node.js**, overseeing system architecture, deployments, and end-to-end feature delivery

### Operations & Data Assistant

Jan. 2020 – Nov. 2022

*Pearson*

*Bangladesh / UK (Hybrid)*

- Supported large-scale examination data processing and operational workflows, handling **thousands of assessment records** across distributed international teams

## PROJECTS

### ThinkFast Sudoku | *Next.js, TypeScript, Firebase Realtime Database* [Live](#)

Jan. 2025

- Built a real-time multiplayer Sudoku web application using Next.js and Firebase Realtime Database, enabling low-latency state synchronization, room-based gameplay, and server-backed conflict resolution

### WLU MSA Website | *Next.js, TypeScript, Payload CMS* [GitHub](#) [Live](#)

Jan. 2022 – Present

- Built and maintain the official production website for Wilfrid Laurier University's Muslim Students' Association using Next.js and Payload CMS, with CMS-driven content, SEO automation, and a responsive Tailwind UI

### MSA App | *React Native, Expo, TypeScript, Supabase, TanStack React Query* [GitHub](#)

Sep. 2024 – Present

- Built and maintain a cross-platform mobile application using React Native and Expo, with a TypeScript codebase and Supabase backend integration for data-driven community features

## TECHNICAL SKILLS

**Languages:** C++, Go, Python, TypeScript, JavaScript, SQL

**Frameworks & Libraries:** FastAPI, Node.js, React, Next.js, Flask, Astro, TanStack Query, Hono

**Databases & Caching:** PostgreSQL, Supabase, SQLite, Redis

**DevOps & Infrastructure:** Docker, Kubernetes (basic), CI/CD (GitHub Actions), Git, Linux

**Cloud & Deployment:** AWS (EC2, S3), Google Cloud Platform, Vercel