

Syed Maroof Hussain

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EDUCATION

University of Guelph B.Comp. Honours Computer Science Major
Academic Distinction Dean's Honours (Fall 2025, Winter 2025)

Expected May 2028

SKILLS

Languages: Java, Python, C/C++, TypeScript/JavaScript, SQL, HTML/CSS

Backend & Systems: Spring Boot, FastAPI, Uvicorn, JavaFX, ExecutorService, REST APIs

Frontend: React.js, Next.js, Tailwind CSS, Framer Motion

Databases & Cloud: MongoDB, AWS (S3, Lambda, IAM), PostgreSQL (Neon), Google Cloud APIs

Tools: Maven, Docker, Git, Unix/Linux, VS Code, IntelliJ, Visual Studio, Figma

Relevant Coursework: *Operating Systems, Software System Development and Integration, Data Structures and Algorithms, Analysis and Design of Algorithms*

EXPERIENCE

SOCIS (Society of Computing and Information Science)

Oct 2025 - Present

Vice President of Technology

Guelph, Ontario

- Led all technical initiatives for SOCIS, overseeing system architecture, infrastructure decisions, and performance optimization for production services.
- Maintained and optimized a high-traffic production website serving **5.8K+ monthly users** and handling **64K+ requests per month**.
- Modernized the codebase by migrating from **Tailwind v2, React 14, and Next.js 14** to **Tailwind v4, React 18, and Next.js 16**, eliminating deprecated patterns.
- Achieved an **80% reduction in CPU usage** by removing deprecated code paths, including unused services and unnecessary graphic rendering logic.

PROJECTS

FileSpark (Individual Project)

Full Stack Developer

- Built a full-stack file uploading and sharing platform that allows users to upload files, generate instant shareable embed links, manage public/private access, and track views and downloads across authenticated accounts.
- Developed a scalable **Spring Boot** backend responsible for authentication, access control, file metadata persistence, and synchronization between the web platform and desktop client.
- Designed a reliable user and file data model using **MongoDB**, supporting persistent user environments, cross-device login, and tracking of uploaded files, visibility settings, view counts, and download metrics.
- Integrated **AWS S3** for durable, scalable object storage, offloading large file transfers from the backend while maintaining secure, performant delivery of user content via generated share links.
- Built a modern web interface using **Next.js, React, and TypeScript**, enabling users to authenticate, manage uploads, and view file analytics through a responsive browser-based experience.
- Tied the system together with a high-performance **JavaFX desktop client** packaged as a downloadable **JAR**, featuring a fully concurrent architecture for background uploads, global hotkey-triggered sharing, and instant clipboard link generation.

SOCIS Website

Lead Developer

- Refactored a large, deprecated frontend codebase by removing unused services, legacy patterns, and unnecessary client-side rendering logic, significantly improving maintainability and performance.
- Repointed and reconfigured DNS and hosting infrastructure to **Cloudflare**, enabling modern deployments, edge caching, and improved site reliability.
- Drove a near **80% increase in monthly visitors** following the redesign and infrastructure migration, indicating improved discoverability, performance, and user experience.

GeckoAI (Individual Project)

Full Stack Developer

- Built an AI-powered scheduling platform that allows users to authenticate and create calendar events or tasks via natural-language prompts, uploaded course documents (e.g., outlines), or images of schedules, using the **Gemini API**.
- Integrated the **Google Calendar API** and **Google Identity Services** to securely synchronize user calendars, enabling authenticated, real-time creation and modification of events through a **Next.js + React + TypeScript** web application.
- Designed a persistent data layer using **PostgreSQL (Neon)** with **Prisma ORM** to model users, calendars as conversational contexts, message history, and preferences, and implemented **Stripe** payments to unlock expanded message storage.