

FAAZ SHAIKH

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EDUCATION

McMaster University

Bachelor of Science in Computer Science

Sept 2024 – May 2028

Hamilton, ON

- **GPA:** 3.71
- **Relevant Coursework:** Data Structures and Algorithms, Software Development (**Java**), Computer Architecture (**Assembly**), Computer Science Development Basics (**C, Git Bash**), Software Design and Web Programming (**JavaScript, Python, HTML/CSS, PHP, SQL**), Linear Algebra, Discrete Math.

WORK EXPERIENCE

Product Engineering Intern

Souvenote

Jan 2026 – Present

Remote

- Built an MVP product framework across **10+ core screens** and **15+ features** by designing UI/UX mockups and outlining product logic, enabling AI image generation, credit-based usage, and checkout workflows.
- Developed end-to-end product documentation in a **20-page report** by modeling user and product workflows, supporting prototype development across AI services, cloud storage, and payment infrastructure.

Software Developer Intern

The Blue Marble Academy

Nov 2025 – Jan 2026

Remote

- Reduced **content creation time** by **75%** by engineering an AI-driven quiz generation pipeline, automatically generating **40+ questions** across multiple formats using Azure OpenAI, FastAPI, and Azure Cosmos DB.
- Optimized content organization across **7 content types** by designing and implementing a **3-level** content management system using React state management and Azure Cosmos DB, with built-in validation and search.
- Enabled secure, real-time data synchronization for **50+ weekly active users** by implementing **40+ REST API** endpoints using FastAPI and MSAL authentication to connect a React front-end with Azure Cosmos DB.

Class Instructor / Supervisor

Kumon Learning Centre

Sept 2020 – Aug 2024

Oakville, ON

- Taught **300+ students** across Grades 1–12 in math and reading by delivering structured, step-by-step instruction and individualized support to improve overall problem-solving, reading comprehension and algebraic reasoning.
- Led classrooms of **40+ concurrent learners**, assessed **1,000+ assignments**, and developed individualized learning plans in a structured, high-throughput instructional environment.

PROJECTS

Frontline – AI Emergency Platform (DeltaHacks Winner)

- | *React, Node.js, Gemini, Presage SDK, ElevenLabs, C++*
- Built a real-time emergency assessment dashboard that delivers clinical insights within **10 seconds** by combining **Presage SDK** camera-based vital sign estimation with **Gemini Vision** for visual injury detection and analysis
 - Integrated **ElevenLabs** voice synthesis and a conversational AI “911 operator” to answer user questions in **real time** and automatically generate EMS-ready **SBAR handoff reports** for paramedics and first responders

Quran Memorization App

- | *React, Node/Express.js, SQLite, Web Speech API, REST APIs*
- Built a full-stack Quran memorization app using React, Node.js/Express, and SQLite, featuring user authentication, **real-time** recitation feedback, **personalized progress tracking** and goal setting for **114 chapters**.
 - Developed an Arabic speech similarity system using **Levenshtein's algorithm**, text normalization, and diacritic stripping, achieving **60%+ accuracy** in voice input validation across **114 chapters**.

BookMate

- | *HTML, CSS, JavaScript, PHP, MySQL*
- Led a team of 3 to build a booking system with user authentication, admin dashboard and session management, using **PHP, MySQL** and **JavaScript**, with real-time calendar updates via **AJAX** and **FullCalendar API**.
 - Implemented secure **REST API endpoints** for booking operations using password hashing, prepared statements, and input validation, supporting **1000+ bookings** while preventing SQL injection and XSS attacks.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, C, C++, SQL, PHP, Bash, LaTeX, Haskell, Assembly

Frameworks: React, Node.js, Express.js, Next.js, FastAPI, Tailwind CSS, Bootstrap

Cloud & Developer Tools: AWS (Lambda), Apache, Azure Cosmos DB, Firebase, Git/GitHub, MySQL, PostgreSQL

AI & ML Tools: Google Gemini, Azure OpenAI, Presage SDK, ElevenLabs