FAAZ SHAIKH

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EDUCATION

McMaster University												Sept 2024 – May 2028
Bachelor of Science in Computer Science										*Hamilton, ON*
- **GPA: 3.71**
- **Awards**: Dean's Honour List, Award of Excellence, $3,000 Entrance Scholarship for academic excellence.
- **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

Software Developer Intern											Nov 2025 – Present
The Blue Marble Academy											*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										Sept 2020 – Aug 2024
Kumon Learning Centre											*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.

LEADERSHIP EXPERIENCE

Community Leader												May 2024 – Aug 2024
Illuminate Universe											*Toronto, ON*
- Coordinated online and in-person workshops, mentored participants during sessions, and assisted with event planning for **200+ students** alongside a **15-member leadership team**.

PROJECTS

Quran Memorization App | *React, Node/Express.js, SQLite, Web Speech API*
- 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.

Movie Recommendation System | *Java, OOP, File I/O, HashMaps, CSV Parsing*
- Developed a movie recommendation system supporting movie browsing, user ratings, genre-based search, and top-10 personalized recommendations using genre similarity and rating affinity across **1,000+ movies**.
- Parsed and validated movie and rating data from **CSV files** using structured exception handling, field validation, range checks, and regex pattern matching to safely handle malformed inputs.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, C, SQL, PHP, Bash, LaTeX, Haskell
Frameworks: React, Node.js, Express.js, Next.js, FastAPI, Tailwind CSS, Bootstrap
Developer Tools: Apache, Azure (Cosmos DB, OpenAI), Firebase, Git, GitHub, MySQL, PostgreSQL, Makefile, Unix