# FAAZ SHAIKH

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## EDUCATION

**McMaster University** — Hamilton, ON
*Bachelor of Science in Computer Science* — *Sep. 2024 – May 2028*
- **GPA: 10.2/12**
- **Awards**: Dean's Honour List, Award of Excellence, and **$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*
- Engineered an AI quiz generation pipeline enabling a **75% reduction in creation time**, producing **40+ questions** across multiple quiz formats, using Azure OpenAI, FastAPI, and Azure Cosmos for automated generation.
- Built a content management structure for **7 content types** through a **3-level hierarchical folder system** with validation and search, implemented using RESTful APIs, FastAPI optimization, and React state management.
- Developed a full-stack architecture through implementation of **43 REST API endpoints**, real-time data synchronization, and enterprise authentication, using FastAPI, React, MSAL, and Azure Cosmos DB.

**Class Instructor / Supervisor** — Sept 2020 – Aug 2024
*Kumon Learning Centre* — *Oakville, ON*
- Mentored **300+ students** across Grades 1–12 in math and reading by providing step-by-step instruction plans and individualized support, improving overall comprehension of complex topics.
- Led and managed classrooms of **40+ concurrent learners**, marking and assessing **1,000+ assignments**, while maintaining personalized learning plans and an organized, high-performance learning 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* — Oct 2025 – Dec 2025
- 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* — Jan 2025 – May 2025
- 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**.
- Developed **REST API endpoints** for booking operations with secure data handling using password hashing, prepared statements, and validation, supporting **100+ bookings** with prevention of SQL injection and XSS risks.

**Movie Recommendation System** | *Java, OOP, File I/O, HashMaps, CSV parsing* — Nov 2025 – Dec 2025
- Implemented a movie recommendation system in Java that generates **top-10 personalized recommendations** by analyzing user ratings and genre similarity across **100+ movies**, using HashMap indexing for fast lookups.
- Parsed and validated movie and rating data from **CSV files**, implementing **validation logic** to prevent **runtime failures** caused by malformed inputs and ensure valid data processing.

## TECHNICAL SKILLS

**Languages**: Python, HTML, CSS, C, SQL, Java, JavaScript, TypeScript, PHP, Bash, Latex, Haskell
**Frameworks**: Spring Boot, React, Node.js, FastAPI, Tailwind CSS, Bootstrap
**Developer Tools**: Apache, Firebase, Git, Github, MySQL, PostgreSQL, Makefile, Unix, Visual Studio Code