

Shakil Hussain

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EDUCATION

University of Calgary

Bachelor of Science with a Major in Computer Science, Minor in Data Science

Calgary, Alberta

September 2023 – Present

- Courses: Data structures, Algorithms, Discrete Mathematics, Computer Engineering, Network Engineering
- Competitions: Calgary Hacks (5th of 78), AHH2024 (4th of 32)

EXPERIENCE

Technical Lead

Tech Start UCalgary

September 2025 – Present

Calgary, Alberta

- Designed and managed the project's Git workflow, ensuring seamless repository integration and code quality through rigorous peer reviews for a team of **6 developers**.
- Partnered with Project Management to translate high-level product requirements into a technical roadmap, defining sprints and milestones that ensured delivery of the MVP in **8 months**.
- Led weekly **technical scrum meetings** with the development team, aligning developer tasks with project goals to increase team productivity and morale.
- Orchestrated the end-to-end integration of a multi-stack architecture, successfully bridging the **React Native** and **Expo** frontend with the **Python** backend and **specialized AI service layers**.

Application Development Lead

Islamic Information Society of Calgary (IISC)

June 2025 – Present

Calgary, Alberta

- Led a team of **5 developers** through the development of both an **iOS and Android application** built with **React Native, Java and Swift** to track prayer times.
- Managed the end-to-end deployment pipeline, including configuring **App Store Connect** and **Google Play Console**, managing bundle identifiers, and overseeing export compliance.
- Orchestrated a comprehensive beta testing phase with **100+ testers**, coordinating with external testing groups to identify and resolve critical UI/UX bugs prior to launch.

Software Engineer

Structural Rebar and Engineering Drafting Services Inc (SRAEDS)

July 2024 – Present

Calgary, Alberta

- Designed and deployed a high-performance corporate website, leveraging responsive **design principles** to ensure a seamless user experience across mobile, tablet, and desktop devices.
- Strategized and implemented a comprehensive site architecture, including **SEO-optimized service modules** and dynamic project portfolios to showcase company capabilities.
- Developed custom interactive elements using **JavaScript** and **CSS3** animations, while ensuring cross-browser compatibility and optimizing page load speeds by up to **30%**.

PROJECTS

Verexa | *React Native, Python, MongoDB, LangChain, Google Gemini, OpenCV*

- Developed **document intelligence pipelines** for PDF/DOCX resume parsing, semantic job matching, and ATS-oriented skill-gap analysis, increasing generation speed by over **33%**, achieving ATS and match scores over **60%**.
- Built automated PDF output generation for tailored resumes and cover letters using template-based formatting, capable of generating resumes in **under 15 seconds**.
- Led **end-to-end integration** across frontend, backend, data, and AI layers, ensuring reliable **API** contracts and production-ready feature delivery.

Aion Archive | *HTML, CSS, JavaScript, Python, Flask, MongoDB, pytesseract, Google GenAI*

- Integrated text-to-speech (TTS) and translation **APIs**, transforming static archives into accessible, multi-modal content for users with visual impairments or language barriers while keeping access speeds under **2 seconds**.
- Designed a structured metadata and versioning schema using **Python** and **MongoDB** that enables the system to track document history and provenance without overwriting the original archival data.
- Rapidly prototyped and pivoted the application interface during a 24-hour hackathon, transitioning from a game concept to a functional archival tool delivering a fully functional MVP with **7** core features within a **24-hour** high-pressure development window.

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, TypeScript, C, Assembly, C++, SQL, Swift

Frameworks: React, React Native, Node.js, DevOps, Azure, MySQL, MongoDB, Git

Office Tools: Microsoft Word, Excel, PowerPoint, Outlook