

Saqib Mazhar

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EDUCATION

Bachelor of Science, Computer Science

University of Calgary

September 2023 – Present

Calgary, AB

WORK EXPERIENCE

Applications Integration Intern

January 2026 – Present

Nimble Science

Calgary, AB

- Supported product development through testing, validation, and documentation of software configurations and integrations, contributing to design controls, verification records, and risk-aware change processes across the product lifecycle.
- Built and maintained user-facing web portals and internal tools, integrating third-party software into a regulated medical device environment while ensuring data integrity, traceability, and compliance with ISO 13485 and IEC 62304 requirements.
- Collaborated cross-functionally with operations, QA, and external vendors to prototype, test, and iterate on software-backed systems, balancing rapid development with regulatory and quality constraints.

AI Developer

September 2025 – Present

Verexa

Calgary, AB

- Built Python-based RAG pipelines to process user resumes, job data, and conversations into vectorized, queryable knowledge.
- Developed a LangChain + LangGraph pipeline that matched resumes to job postings, improving retrieval accuracy by 25% using Cohere reranking.

CO-VP External

August 2024 – Present

Tech Start UCalgary

Calgary, AB

- Managed external relations by building partnerships with industry contacts, securing sponsorships, and coordinating outreach to support Tech Start UCalgary's events and initiatives.
- Led a team of 4 to secure 4+ corporate sponsors and partners to fund hackathons, Networking nights, and Tech Talks.

PROJECTS

Real-Time Energy Anomaly Monitor

- Built a live dashboard for simulated IoT energy sensors with Flask, InfluxDB, and JavaScript (React), supporting live updates and historical usage analysis.
- Built secure REST endpoints for sensor data submission, anomaly detection, and retrieval of metrics.
- Implemented rolling Z-score anomaly detection within Flux Tasks to identify deviations in sensor readings requiring immediate attention.

Municipality Service Portal

- Built and deployed a municipal-style service request platform using ASP.NET Core and PostgreSQL, supporting citizen submissions, staff triage, and administrative oversight
- Implemented role-based access control, secure authentication, geospatial data integration, and operational analytics for public infrastructure issues.
- Deployed a containerized, production-ready system with health checks, security controls, and automated migrations.

Second Brain - An Agentic Knowledge System

- Built an agent-driven system to collect, organize, and query personal knowledge across notes, documents.
- Created ingestion and embedding pipelines for text from Notion, Google Drive, and handwritten notes using OCR and vector

search for fast semantic retrieval.

- Implemented retrieval-augmented Q&A over the full knowledge base using LangChain and Gemini, and deployed the system on GCP with secure API management.

SKILLS

Languages: Python, Java, SQL, Bash, C#

Frameworks/Tools: Flask, Spring Boot, Kafka, Docker, LangChain, Redis, GCP, Apache Spark

Databases: SQLAlchemy, MongoDB, ChromaDB, Weaviate, MySQL, Azure Data Lake, PostgreSQL

Concepts: Microservices, REST APIs, RAG Systems, Data Pipelines