

# Saher AFrin Khan

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## EDUCATION

### University of Alberta

B.Sc. Computing Science (Minor in Mathematics)

Edmonton, AB

Expected Graduation: Dec 2026

#### Relevant Coursework:

- Predictive Business Analytics
- Machine Learning I
- Reinforcement Learning Specialization
- Search and Planning in Artificial Intelligence
- File and Database Management (SQL & MongoDB)
- Software Engineering Specialization
- Mathematical Modelling

## SKILLS/EXPERTISE

**Academic Expertise:** Software Development, Data Analysis, Data Science, Machine Learning, Artificial Intelligence

**Tools and Software:** Office 365, Power BI, Tableau, SAP (ABAP, HANA), Linux, Android Studio, iOS, Git, GitHub, GitLab, Raspberry Pi, Figma, Lucidchart, Adobe Creative Cloud (Illustrator, Photoshop), Jupyter Notebook

**Programming Languages:** SQL, MongoDB, Python (Django, Flask, scikit-learn, tensorflow, numpy, pandas, matplotlib, seaborn, pyqt, tkinter), JavaScript (React.js, Next.js, Node.js, Tailwind CSS), TypeScript, C, C++, C#, Java, HTML, CSS, R (dplyr, tidyr, ggplot2, tensorflow, rpart, tidyverse, randomForest), Assembly (RARS RISC-V)

**Cloud Platforms and DevOps:** AWS, Azure, Google Cloud, Docker, Kubernetes, Ansible, Terraform, Jenkins, GitHub Actions, Travis CI

## EXPERIENCE

### Software Developer

May 2024 – Present

[University of Alberta – Women in Science and Engineering Club \(UA-WiSE\)](#)

Edmonton, AB

- Contributing to software projects aimed at empowering women in STEM through community-driven technical solutions.
- Collaborating with student developers to build scalable tools that support mentorship, outreach, and academic events.

### Peer Mentor

Jan 2024 – Jan 2025

[Ada's Team, University of Alberta](#)

Edmonton, AB

- Provided academic and emotional support to first-year students in Computing Science.
- Led technical workshops and mentoring circles promoting inclusivity and diversity in tech.

## PERSONAL PROJECTS

### ScholarTrack | Flask, PostgreSQL, Ollama (Phi3), Python, HTML/CSS

[Link](#)

- Designed Flask API routes to serve PostgreSQL-stored aid data dynamically by section (Finance, Food Bank, Wellness, etc.).
- Migrated from static JSON to a normalized PostgreSQL schema, improving data management and scalability.
- Solved real-world challenges in LLM integration, database querying, and prompt engineering for user-specific responses.

### RecruiterAI | Next.js, Firebase Auth, Google Gemini API, Vapi.ai, Tailwind CSS

[Link](#)

- Built a voice-based mock interview web app that simulates technical interviews and delivers real-time feedback.
- Integrated Vapi.ai for speech interaction and Google Gemini API for structured candidate evaluation and scoring.
- Handled frontend-backend communication, authentication flows, CORS issues, and deployment on Vercel.

### EcoCart | Python, Flask, AWS Lambda, API Gateway, JSON, REST APIs

[Link](#)

- Built a serverless backend tool to estimate the carbon footprint of online shopping orders based on product type, shipping method, and packaging.
- Designed and deployed RESTful APIs with AWS Lambda + API Gateway for scalable, cost-efficient hosting.