

Sama Al-Oda

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EDUCATION

McMaster University

Hamilton, ON

Bachelor of Engineering in Software & Biomedical Engineering

Sep. 2023 – Expected May 2027

- Dean's Honor List with a current cGPA of **3.97 on the 4.0 scale**.
- Recipient of both the Engineering Award of Excellence, and Diversity Scholarship.

EXPERIENCE

Web Developer

August 2025 – Present

Ibtikar Toronto

Toronto, ON

- * **Developing** and maintaining a responsive web platform using Next.js, React, & TailwindCSS for **1,000+ users**.
- * **Integrating** APIs to deliver dynamic, real-time content and enhance user interaction across multiple features.

Machine Learning & App Development Research Assistant

May 2025 – Present

McMaster University

Hamilton, ON

- * Built and trained **classification models** using Random Forest and K-Nearest Neighbour algorithms, improving accuracy through data preprocessing and parameter tuning.
- * Developed a full-featured **1,500+ line SwiftUI mobile app**, entirely independently, from concept to launch, implementing authentication, real-time data sync, and Supabase API integration.
- * **Designed** UI/UX in Figma and prepared polished demos and technical documentation for publication as part of a research paper.

Software Technical Team Member

September 2024 – May 2025

HealthHatch

McMaster University

- * Worked with a software team to build a **ML tool in Python** to process X-ray data to detect bone fractures.
- * Detected in **over 90%** accuracy of **12+ diseases and disorders**, trained using **over 10,000 images**.
- * Built and established a friendly user-interface to input X-ray images, with **AI-driven chatbot** for feasibility.

PROJECTS

KareBear | *ReactNative, JavaScript/TypeScript, Expo, Google Cloud API*

February 2025

- * **Winning project at ElleHacks**, a hackathon for women (& others) in tech, selected from 300+ participants.
- * Integrated **Google Cloud Vision, React Native, Google Cloud APIs** and **Gemini AI** into an interactive plushie, enabling real-time emotion detection and speech-based learning for children with ASD aged 2-8.

SkipTheLine | *JavaScript, ReactNative, Expo, MongoDB*

February 2025

- * Designed and developed a **ride queue app** that allows users to enqueue themselves for attractions in real time.
- * Developed a **smart scheduling algorithm** based on wait times and the user, maximizing park efficiency.
- * Integrated **Google Maps Platform API** to display ride locations on an interactive park map.

LEADERSHIP & TECHNICAL EXPERIENCE

Design Projects in Engineering Teaching Assistant

August 2025 – Present

McMaster University

Hamilton, ON

- **Assist** in delivering engineering design labs for **25 students per section**, aiding in CAD, programming, and prototyping skills.
- **Evaluate** deliverables (design reports, code submissions, presentations) and provide **constructive feedback**.

Wellness Coordinator @ MES

May 2024 – May 2025

McMaster Engineering Society (MES)

McMaster University

- Manage the Wellness Division of for an engineering community of **over 7000 students**.
- **Lead a team** of 5 executives to plan and market engaging events throughout the year.

TECHNICAL SKILLS

Languages: SwiftUI, JavaScript, TypeScript, Java, Python, C, HTML/CSS

Frameworks: React, Node.js, Next.js, Expo, ReactNative, FastAPI

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Eclipse, Vim

Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch