

Khalifeh Basiri

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EDUCATION

Carleton University

Ottawa, ON

Bachelor of Computer Science - GPA: 3.7

Graduated 2026

WORK EXPERIENCE

Department of Fisheries and Oceans Canada

Ottawa, ON

Programmer – Internship

Oct 2023 - Dec 2025

- Built a Storage Explorer app to navigate 420 TB of Azure data and a bilingual Python tool to validate departmental geographic names against GNBC records, flagging discrepancies and Indigenous language variants using geospatial libraries.
- Engineered a data management solution using Python, MongoDB, and SQLite with real-time Azure sync and advanced search; maintained bilingual user manuals and presented at multisector meetings.
- Maintained and supported enterprise cloud-based systems handling large-scale departmental data, including troubleshooting, synchronization workflows, and secure data management processes.

Floxy

Remote

Frontend Developer – Contract

2025

- Built and shipped Floxy's marketing landing page using Next.js, React, TypeScript, and Tailwind CSS - serving 20,000+ customers and growing to 23.9K monthly visits within 4 months.
- Implemented conversion-focused UI including mobile nav, proxy-type selector, auto-scrolling testimonials, language-based API code snippets with copy-to-clipboard, and SEO metadata; structured codebase with reusable section components and centralized data models.

Tahan Business Services Inc.

Ottawa, ON

System Administrator - Internship

May 2023 - Aug 2023

- Managed Microsoft Cloud infrastructure with automated real-time backups, on-site hardware/software support, and computer configuration.
- Tracked corporate financials using Excel (bank statements, payroll, taxes) and handled administrative operations including scheduling and client communications.

PROJECT EXPERIENCE

AI Software Developer - Real-Time Sign Language Translator

- Built a real-time ASL translation system using TensorFlow and MediaPipe for gesture recognition, integrated with a React frontend for live webcam processing.
- Developed a Flask backend for inference, containerized with Docker and deployed on AWS EC2.

Full-Stack Developer - Collaborative Board Web App

- Built a full-stack social board app using Next.js, React, TypeScript, Convex, Clerk, and Tailwind CSS - featuring real-time post feeds, voting, comment threads, and light/dark theme.
- Implemented Clerk authentication with protected actions, Convex real-time queries/mutations, per-user vote tracking, ownership checks, and cascade deletes; deployed on Vercel with Bun pipelines.

KEY SKILLS

Languages: Python, TypeScript, JavaScript (React, Next.js, Node.js), C, C++, Java, Assembly, HTML, CSS, Haskell, Prolog

Frameworks & Tools: Next.js, React, Tailwind CSS, TensorFlow, MediaPipe, Flask, Docker, AWS, Node.js, Express.js, Clerk, Vercel, Bun, Linux/Unix, GitHub, Azure, OpenGL

Databases: Oracle, MongoDB, SQL, SQLite, Convex

Domains: Web Development, Machine Learning & AI, Cloud & Containers, Computer Vision, System Programming, Database Management, Version Control