

Shervin Darmanki Farahani

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EDUCATION

University of Toronto

Toronto, ON

Bachelor of Applied Science in Computer Engineering + PEY Co-op

Expected 2028

Minor in Artificial Intelligence Engineering and Engineering Business

- Relevant Courses: Programming Fundamentals, Digital Systems, Computer Organization, Software Design and Communication, Signals and Systems

Bachelor of Applied Science in Engineering Science, Dean's List Scholar

Sep. 2023 – May 2024

- Relevant Courses: Introduction to Computer Programming, Computer Algorithms and Data Structures

EXPERIENCE

Full-Stack Web Developer

October 2024 – Present

University of Toronto Web Development Club

Toronto, ON

- Collaborated with 4 developers using **Git** to build **20+ React components** with **shadcn UI** and **Tailwind CSS**, achieving 98% responsiveness across 5 core site features, and improving user experience for **over 200 students**.
- Designed and implemented **CRUD endpoints** for a **FastAPI** backend, enabling dynamic data management for multiple website features, integrated with a **PostgreSQL** database managed via **Alembic**.
- Used **React Query** to fetch and display real-time data from backend APIs, enhancing UX for **5+** pages.

Cloud-Integrated Software Developer

January 2025

U of T Hacks Hackathon

Toronto, ON

- Engineered a full-stack web application that processed over 100 data points in real time by integrating **AWS S3** for deployment, intermediate file storage, and multimedia management, alongside **AWS Lambda** for API call processing from the **Gemini API** and video processing from the S3 buckets.
- Automated infrastructure deployment using **Terraform**, reducing manual setup time by 40% and enhancing scalability for AWS services.
- Designed and developed a dynamic **React front-end**, achieving a 40% increase in user feedback.

Full-Stack IoT Developer

February 2025

Make U of T Hackathon — Winner of 'Best Use of Streamlit' Category

Toronto, ON

- Designed a **Flask-based REST API** for real-time data streaming and control, achieving $\leq 200\text{ms}$ latency
- Developed and optimized a **Convolutional Neural Network** using **TensorFlow Lite** for Raspberry Pi, achieving 70% accuracy in classifying 5 crop types from live camera feeds
- Architected a **Streamlit** dashboard for real-time telemetry and control with 5+ components for improved UI

PROJECTS

OpenStreetMap Mapper Software (ECE297 Project) | C++, CSS, Git

January 2025 – May 2025

- Designed and implemented an **efficient API** for querying and processing OSM street data, achieving $O(1)$ average case look-ups through optimized data structures (e.g., **hash maps**, **tries**)
- Integrated **GTK** and **EZGL** libraries to render OSM maps with real-time zoom, pan, and search functionality, supporting up to **10,000+ map elements** with $\leq 100\text{ms}$ rendering latency
- Solved a traveling salesman-style problem by implementing a **multi-target Dijkstra's Algorithm** as well as Simulated Annealing and 2/3-opt moves, **reducing travel time by 16%**.

Cover Letter Input Chrome Extension | JavaScript, Node.js, HTML, CSS

May 2025 – Present

- Built a Chrome extension with **Manifest V3**, achieving overlay injection for 95% of tested DOM environments.
- Integrated **Gemini API** via **Node.js**, enabling AI-generated cover letters with **80%** reduction in writing time.
- Utilized **MutationObserver** to detect file inputs dynamically, supporting **100%** compatibility with **standard DOM**, **Shadow DOM**, and **iframes** on **50+** tested websites.
- Implemented **jsPDF** for PDF generation, and optimized event listeners by using idempotent logic.

SKILLS

Technical: C, C++, Python, JavaScript, Kotlin, AWS S3, AWS Lambda, React, Node.js, Tailwind CSS, SQL, Next.js, Flask, HTML, CSS, Git, SciKit-Learn, PyTorch, Terraform, Docker, Streamlit, Figma, TensorFlow, Browser Extension Development, Data Structures & Algorithms, Object Oriented Programming, Machine Learning, Embedded Systems

Soft: Organization, Interpersonal Communication, Critical Thinking, Problem Solving, Fast Learner