

Issar Manknojiya

705-309-0986 | issar2005@gmail.com | github.com/issarmank | [personal portfolio](#) | linkedin.com/in/issarmank/

EDUCATION

Western University

Bachelor of Science in Computer Science

London, ON, Canada

Expected April 2027

TECHNICAL SKILLS

Languages: Python, SQL, Java, C#, C++, Typescript, Javascript, HTML/CSS

Frameworks: Pytorch, TensorFlow, FastAPI, NumPy, Pandas, Scikit-Learn, Matplotlib, React.js, Node.js, Redis

Developer Tools: Git, Linux, Unix, Azure, AWS, OpenAI, Cursor, Docker, Kubernetes, CI/CD, Github Actions

Gen AI: Prompt Engineering, MCP, AI Agents, RAG, Vector Embeddings, Claude Code, Codex, Groq, Gemini

WORK EXPERIENCE

SmartOne AI

May 2026 – June 2026

Data Operations Intern

Montreal, QC

- Creating a new robotics data service by conducting comprehensive market benchmarking and internal gap analyses, while standardizing workflows from sensor-based field capture for production ready deployment.
- Designing a small-scale robotics data collection pilot to validate workflow assumptions while recommending a scalable technical stack to optimize annotation and quality control standards for GTM production.

DevFortress

May 2025 – Aug 2025

Software Engineer Intern

Montreal, QC

- Developed a **TypeScript-based** Obsidian plugin with secure JWT authentication, handling login validation, secure token storage, and authenticated note scraping enabling seamless transfer of Markdown notes to Athena AI with sub-300ms latency, preserving metadata such as titles, tags, links, and headings.
- Ensuring this Obsidian integration builds on **Google Workspace Collaborative Whiteboard** used by **2,000,000+** Google Meet users to sync and secure meet minutes, notes and research.

LEADERSHIP & CLUB EXPERIENCE

3D Western 🌐

Sep 2025 – Apr 2026

Machine Learning Engineer

London, ON

- Engineering end-to-end **MLOps pipeline** for automated 3D printing, integrating computer vision for geometry validation and AI-driven slicer parameters to reduce manual preprocessing by 80%.
- Using AI to optimize the slicing presets and **PrusaSlicer CLI** for printing customization to generate production-ready G-code files through Docker containers.

PROJECTS

Turtle (Command Line Interface Agent) - QHacks 🐢 🌐 | Python, Ollama, Rich, Bash

- Shipped a fully local CLI agent using Ollama's Qwen 2.5 3B model with tool-calling, translating natural language into executable terminal commands via a Rich-based terminal UI with a yes/no confirmation gate before execution

Agentify (RAG System) 🐢 🌐 | Next.js, Typescript, Python, FastAPI, Langchain, QDrant, CI/CD, Docker

- Built and deployed a production RAG system across a 6-part stack (Next.js, FastAPI, LangChain, Qdrant, Docker, CI/CD), enabling conversational PDF querying via vector similarity search with a hallucination-detection layer constraining responses to retrieved content.

Fight Club Agents 🐢 🌐 | Next.js, FastAPI, Typescript, React, WebSockets, Pinecone, Azure, CI/CD, Github Actions

- Created a real-time multi-agent AI simulation with 20 autonomous agents battling on a 2D grid, streamed live via WebSocket to a Next.js frontend and deployed on Azure Container Apps with full CI/CD via GitHub Actions.

Finguard AI (Financial Tool) 🐢 🌐 | Next.js, Python, FastAPI, PostgreSQL, Neon, Docker, CI/CD, Github Actions

- Built an AI-powered financial tracker generating SQL queries from natural language, integrating Plaid across its network of 12,000+ supported institutions, with Row-Level Security enforcing per-user data isolation at the database layer.

Job Application Tracker 🐢 | Next.js, Typescript, TailwindCSS, PostgreSQL, Drizzle, Zod, Auth.js

- Shipped a job-app tracker with a pipeline UI automating ingestion from LinkedIn and GitHub via background workers and an LLM-powered extraction layer that structures postings into title, company, location, and status.