

Jaineel Modi

📞 647-274-5055 | ✉️ Jaineelmodi05@gmail.com | 🌐 jaineelmodi | 🌐 jaineelmodi.com | 🌐 jaineelmodi11

Technical Skills

Languages: Python, Java, C, C++, C#, TypeScript, JavaScript, SQL, Swift

Frameworks/Libraries: React, Flask, Node.js, FastAPI, TensorFlow, PyTorch, .NET Core

Development Tools: MS Azure, AWS, Docker, Kubernetes, Git, MySQL, PostgreSQL, MongoDB

Experience

RISE Lab — Reliable & Intelligent Software Engineering 🔗

Sept 2025 – Present

Undergraduate Research Assistant

Kingston, ON

- Researching **LLM-driven** automated program repair to advance reliable AI developer tools, led by **Prof. Yuan Tian**
- Built an **agentic program-repair** evaluation pipeline to log multi-agent trajectories and track failure points across runs

Mulvey & Banani International

May 2025 – August 2025

AI Development Intern

Toronto, ON

- Shipped a Revit Copilot powered by **GPT-4** via the **OpenAI API**, automating more than **20** BIM tasks with natural-language prompts, serving **80+** users, and processing over **150k** tokens per day
- Built a **routing layer** for multi-step tool execution inside Revit, including clash detection and model overrides
- Created a **Python** service that extracts metadata into a pipeline for generating standardized engineering reports

Mulvey & Banani International

June 2024 – August 2024

AI Development Intern

Toronto, ON

- Collaborated with the AI team to automate blueprint generation in Revit by placing **250+** electrical components using the **Revit API**, **C#**, and **.NET**, boosting productivity by **20%** and saving **26 hours** per project
- Built a **WPF** tool using **Python** and **FastAPI** for multi-project file/folder handling, used daily by **200+** engineers
- Used **Azure Computer Vision** to automate image tagging, accelerating search and retrieval for **10k+** images

ConvoSearch

January 2024 – May 2024

AI Development Intern

San Francisco, CA

- Built data validation checks for an **ETL** ingestion pipeline using **LangChain**, reaching **98.3%** ingestion accuracy
- Implemented a profit-driven reranking layer that boosted CVR by **18%** and increased average order value by **25%**
- Developed scalable CRUD APIs in **Python** for **MongoDB**, optimizing performance with query indexing and pagination to handle **50k+** records and reduce average execution time by **30%**

Geotab

July 2021 – August 2021 & July 2022 (3-week program)

Junior Summer Program Intern (Software Engineer)

Oakville, ON

- Developed **Python** based crash simulation software with the Automotive team to track and analyze driver safety
- Created a talent-tracking dashboard, streamlining position management for over **30** roles for the HR team

Projects

MovieMatch App | *SwiftUI, Firebase, Flask (Python), Node.js (Express), PostgreSQL, Recsend*

GitHub Demo

- Created an **iOS** swipe-based movie recommendation app that learns user preferences and delivers film suggestions
- Built **Recsend**, a Python CLI tool that automates **E2E API testing** for backend validation and **CI/CD**
- Fine-tuned **all-MiniLM-L6-v2** on SNLI/MNLI with NLI softmax loss, achieving **91.2%** accuracy on the MNLI set

TOSSIT App | *React, Python, Node.js, TensorFlow, Expo*

GitHub Demo

- Awarded first place at SatecHack for an ML app that identifies user waste and promotes better recycling habits
- Trained the **VGG16** supervised image classifier to achieving **97%** accuracy in waste categorization

Education

Queen's University

September 2023 – May 2027

Bachelor of Computing – Specialization in AI

Kingston, ON

- **Courses:** Data Structures, Algorithms, Software Architectures, Artificial Intelligences, Computer Architecture
- **Activities:** AI Society, Competitive Programming Club, Hack the North (University of Waterloo)