

Jaineel Modi

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Technical Skills

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

Frameworks/Libraries: React, Flask, TensorFlow, Node.js, Next.js, Flutter, FastAPI, .NET Core, Revit API

Development Tools: Microsoft Azure, AWS, MySQL, PostgreSQL, MongoDB, GitHub, Docker, Expo

Experience

Mulvey & Banani International

June 2025 – August 2025 & June 2024 – August 2024

AI Development Intern

North York, ON

- Architected and implemented a custom **CI/CD workflow** for the AI team to automate engineering processes and eliminate manual bottlenecks, savings over **\$20,000 per month**.
- Developed a **C#/.NET** Revit plugin using the **Revit API** to automate placement and layout of **250+** electrical components, boosting productivity by **20%** and saving an average of **26 hours** per project.
- Built a **WPF** application using **Python** and **FastAPI** for multi-project file/folder handling, used daily by **200+** engineers to accelerate project setup and streamlining workflows.

ConverseCart

January 2024 – May 2024

AI Development Intern

San Francisco, CA

- Developed an AI-driven shopping interface using K-Nearest Neighbors and deep learning neural networks, providing personalized recommendations that increased conversion rates by 18% and average order value by 25%.
- Engineered and trained GTP-4 using few shot and chain of thought prompting to validate and transform client data during ETL from client systems into our database, achieving 98.3% ingestion accuracy.
- Built high-performance CRUD APIs in Python for MongoDB, managing 50,000+ records and \approx 450 GB of data; implemented indexing and pagination, reducing query execution time by 30% and improving API response times.

Geotab

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

Junior Summer Program Intern (Software Engineer)

Oakville, ON

- Developed crash simulation software in Python, enhancing the automotive team's capabilities and improving driver safety through comprehensive testing and data tracking.
- Created a talent-tracking dashboard, streamlining position management for over 30 roles for the HR team.
- Automated reimbursement and work-abroad requests for over 3,000 employees, boosting efficiency by using macros and scripting in Excel.

Projects

MovieMatch App | SwiftUI, Firebase, Flask (Python), Node.js (Express), PostgreSQL, MiniLM-L6-v2 Recsend GitHub Demo

- Created an iOS swipe-based movie recommendation app that learns user preferences from swipe actions and delivers tailored film suggestions.
- Fine-tuned **all-MiniLM-L6-v2** on SNLI/MNLI with NLI softmax loss, achieving **91.2%** accuracy on the MNLI development set.

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

GitHub Demo

- Awarded first place in SatecHack by creating Tossit, a ML-driven application that identifies waste from photos, enhances recycling outcomes, and provides users with waste-tracking insights.
- Utilized the **VGG16** supervised image classifier with TensorFlow, achieving **97%** accuracy in waste categorization.

Recsend CLI Tool | Python

GitHub

- Developed Recsend CLI, a command-line tool that automates end-to-end API testing with YAML-defined suites for rapid backend validation and seamless CI integration.

Education

Queen's University

September 2023 – May 2027

Bachelor of Computing – Specialization in Artificial Intelligence

Kingston, ON

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