

# Mann Modi

GitHub Developer Program Member

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[mann-portfolio-site.vercel.app](https://mann-portfolio-site.vercel.app)

## EDUCATION

### University of Guelph

Bachelor of Engineering in Computer Engineering, GPA: 70%

Guelph, ON

Sept. 2022 – June 2027

## SKILLS

**Languages:** Python, Shell, C, JavaScript/TypeScript, MATLAB, CSS, VHDL, Verilog

**Frameworks:** React, Django, Flask, Vite.js, Tailwind CSS, FastAPI, MySQL, Detectron2, PyTorch, OpenCV, Scikit-learn, FinBERT

**Tools:** Git, Docker, Jupyter Notebook, Matplotlib, beautifulsoup4, Selenium, Xilinx Vivado, MATLAB, Framer Motion

**Technical Skills:** REST APIs, Microservices, CI/CD, System Design, Data Structures & Algorithms, Object-oriented Programming, concurrency, Version Control

## EXPERIENCE

### Computer Lab Assistant

University of Guelph

Sept. 2025 – Present

Guelph, ON, CA

- Improved lab reliability by updating software and systems across 60+ departmental computers
- Enhanced student support by creating manuals and diagrams, reducing repeated technical queries by 30%
- Minimized downtime by organizing inventory and reporting issues promptly, improving maintenance efficiency by 25%

### Software Engineer Intern (Remote)

Outlier.ai

May 2025 – Sept. 2025

San Francisco, CA, USA

- Achieved scalable data labeling workflows by building automation modules, increasing processing efficiency by 35%
- Achieved cleaner architecture by refactoring core Python services, improving API response times by 28%
- Delivered reliable releases by implementing Pytest-based testing pipelines, reducing bug detection time by 40%

## PROJECTS

### Stock Price Prediction Model (Python, pandas, numpy, scikit-learn, TensorFlow, matplotlib, yfinance)

- [github.com/mann-uofg/stock-price-prediction](https://github.com/mann-uofg/stock-price-prediction)
- Built a modular Python system for stock-price prediction using LSTM models and engineered features.
- Implemented efficient data pipelines with Pandas and scikit-learn to enhance scalability and performance.
- Improved training efficiency by 40% with full coverage of 5,000+ records using Pandas, NumPy, and yfinance.

### CodeView MCP (Python, Shell, SQLite, ChromaDB, LLM)

- [github.com/mann-uofg/codeview-mcp](https://github.com/mann-uofg/codeview-mcp) | [pypi.org/project/reviewgenie-mcp](https://pypi.org/project/reviewgenie-mcp)
- Published PyPI package integrating MCP servers for automated LLM-based code review workflows.
- Developed Python SDK implementing Model Context Protocol for seamless LLM tool integration.
- Slashed cloud inference costs by 99% (to \$0.0008/PR) via local-first batching for Groq/OpenAI API calls.

### ugflow.com (Python, Django, Celery, Redis, JavaScript, Framer, Tailwind CSS, React, EmailJS)

- [github.com/mann-uofg/ugflow](https://github.com/mann-uofg/ugflow) | [ugflow.com](https://ugflow.com)
- Built a conflict-free course-scheduler and GPA-calculator web app for university students using React and Django.
- Designed and implemented a co-op forum, assignment export tool, and multi-scheme GPA engine.
- Developed a scheduling algorithm processing 100+ course to generate conflict-free timetables under 500 ms.

## EXTRACURRICULAR

### Finance/Booking Exec., Guelph Gujarati Students' Asso.

University of Guelph

Sept. 2024 – Present

Guelph, ON, CA

- Managed event bookings and secured sponsorships for events and socials attended by 100+ students.

### Open Source Contributor

Various Projects on GitHub & FOSS Libraries

May 2025 – Present

- Recently started contributing to open-source projects and released a PyPI library for MCP-based LLM integration.