

Jaimin Patel

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CAREER OBJECTIVE

First-year Computing and Financial Management (CFM) student at the University of Waterloo with a strong foundation in Python, C++, and algorithms. Passionate about applying computational skills to solve complex financial problems, with hands-on experience developing a real-time AI trading simulation platform. Seeking a challenging Quantitative Developer co-op for Spring 2026.

EDUCATION

University of Waterloo | Expected Graduation: **May 2030**

- Program: **Bachelor of Computing and Financial Management (CFM)**
- Coursework includes: **Programming (Python, Java), Data Structures & Algorithms, Financial Accounting, Microeconomics, Statistics**

PROJECTS

AlgoClash: Where Code Collides

[Website](#) | [Github](#)

Open-Source AI Trading Simulation Platform

July' 2025 – Current

- Engineered a real-time stock market simulation using Python, featuring a WebSocket API for live data streaming and a React frontend for trade visualization and leaderboards.
- Different algorithms created by different AI agents are battled with each other to see who will have the best ROI on the stock market. The winner would be the one who can generate the best algorithm for that particular stock.
- Implemented a back-end engine to process and rank competing AI-driven trading algorithms based on risk-adjusted returns (Sharpe Ratio) and overall ROI.

Moodmate: Your Personalised Therapist

[Website](#) | [Github](#)

Mood-Based Entertainment AI

Sep'2024 – Dec'2024

- Engineered a full-stack recommendation engine using a Python Flask backend to process user mood inputs and deliver personalized movie and song suggestions.
- Integrated the OpenAI API to generate dynamic, context-aware content recommendations and built a responsive user interface with vanilla JavaScript to display the results.

Blockchain Encryption Visualisation

[Website](#) | [Github](#)

Interactive Blockchain Educational Tool

April' 2024 – July' 2024

- Developed a full-stack web application as an educational tool to visually demonstrate the fundamental principles of blockchain technology, such as cryptographic hashing and immutability.
- Built an interactive educational tool with a Flask (Python) backend and JavaScript frontend to visualize cryptographic hashing (SHA-256) and the immutability of a distributed ledger.

BudgeBuddy: Your Personal Finance app

[Website](#) | [Github](#)

Personal Finance Tracker

March' 2024 – June' 2024

- Developed and published a personal finance mobile application to the **Amazon App Store** using React Native, enabling users to track expenses and manage budgets.
- Utilized React Native to build a mobile app that allows users to track personal expenses, incomes, and budgets.

Research Paper

[Website](#)

Environmental Pollution From Constructing Renewable Energy Projects

March' 2024 – June' 2024

- Conducted in-depth research on the environmental pollution caused by renewable energy construction projects, analyzing the trade-offs between sustainability and environmental harm from materials and methods used.
- Authored a research paper offering a comprehensive summary of findings and proposed solutions to mitigate the environmental impact.

SKILLS & INTERESTS

Programming Languages: HTML, CSS, JavaScript, Python, C++, C, MySQL

Frameworks & Libraries: React, React Native, Node.js

Technical Tools: VS Code, Git, GitHub, Node.js, MySQL

Languages Spoken: English, Hindi, Gujarati