Aarush Modi

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Education

University of Western Ontario — London, ON
Bachelor of Software Engineering w/ Co-op — *Sept. 2024 – June 2029*

Experience

Property Manager — June 2023 – Present
Privately Managed Residential Property — *Ajax, ON*
- Managed day-to-day operations of multiple residential properties for a non-resident owner
- Conducted maintenance and repairs in compliance with the Residential Tenancies Act
- Staged and led tours for prospective tenants
- Managed tenant queries and escalations with a client-first approach

MHE Operator — June 2025 – Aug. 2025
Aspect Retail Logistics — *Pickering, ON*
- Worked at Canada's largest 3PL warehouse, supporting national food supply chains
- Consistently performed ~10% above productivity goals
- Certified to operate a double pallet jack, safely moving heavy loads across 1M+ sq. ft. of warehouse space
- Focused on time management, safety, and accuracy in a fast-paced environment

Co-op iOS App Developer — Oct. 2023 – Jan. 2024
Apple Inc. via Career Education Council Partnership — *Guelph, ON*
- Acquired core skills in creating optimized, production-ready applications
- Focused on efficient bug resolution and technical support for applications
- Independently researched, and designed a self-improvement app
- Pitched self-improvement app at Guelph Developer Showcase generating 6 investor inquiries

Projects

ML Stock Portfolio Analyzer | *Python, pandas, yfinance, SQLite, sklearn, Regression, Git* — May 2025 – Present
- Developed a Python based system that automates equity data acquisition, storage, and predictive modelling for short term price forecasting of 500+ tickers
- Engineered a modular ETL pipeline enabling scalable ingestion and storage of 100,000+ historical data points reducing manual data prep time
- Trained and evaluated models using sklearn, achieving 15 - 20% lower MAE and RMSE compared to baseline moving average signals
- Emphasized sub-second latency prototyping and interpretability over black-box models

Momentum Backtesting Engine | *Python, pandas, yfinance, SQLite, Matplotlib, Git* — May 2025 – Present
- Designed and implemented a modular backtesting framework to evaluate long/short momentum trading strategies across 1,000+ equities over 20 years
- Automated ingestion of 5,000,000+ price records enabling scalable analysis of multi-asset portfolios
- Engineered performance reporting pipeline calculating annualized returns, Sharpe ratio, volatility, and max drawdown
- Integrated position sizing, transaction cost modeling, and execution lags to improve realism of simulations by up to 30% compared to naïve models

Technical Skills

Languages: Java, Python, C/C++, SQL (SQLite), JavaScript, HTML/CSS, Swift
Frameworks: React, Node.js, FastAPI
Developer Tools: Git, Docker, VS Code, IntelliJ
Libraries: pandas, NumPy, Matplotlib, yfinance, scikit-learn