

Devminda L. Abeynayake

Urbana, IL

📞 217-721-6463 • ✉ ada16@illinois.edu • [in www.linkedin.com/in/devminda-abeynayake](https://www.linkedin.com/in/devminda-abeynayake)
🐙 github.com/devminda

Professional Summary

M.S. in Financial Engineering student with professional experience developing high-throughput data pipelines and backtesting algorithmic trading strategies. Passionate about building innovative, low-latency systems and solving complex problems at the intersection of technology and trading. Seeking to apply strong object-oriented Python and C++ skills to a Quantitative Development Internship role.

Education

University of Illinois Urbana-Champaign

M.S. in Financial Engineering (Reading)

Champaign, IL

Aug 2025–Present

University of Colombo

B.S. (Hons) in Industrial Statistics (GPA: 3.79/4.3)

Sri Lanka

Dec 2017–Jun 2022

University of the West of Scotland

B.A. (Hons) in International Business and Finance (GPA: 60.07/100)

United Kingdom

Sep 2016–Jul 2020

Skills

Languages & Programming: Object-Oriented Python, C++, SQL, R

Python Libraries: NumPy, pandas, SciPy, scikit-learn, TensorFlow, PyTorch, FastAPI, Flask

Quantitative & Systems: Algorithmic Trading, Backtesting, Time-Series Analysis, Performance Engineering, Distributed Systems (Kafka), Risk Metrics, Optimization, Feature Engineering

Developer Tools: Git, Linux, SQL, Grafana, Prefect, Selenium, LangChain

Experience

Acuity Knowledge Partners

Senior Data Engineer and Python Developer

Colombo, Sri Lanka

Oct 2021–Aug 2025

- Engineered high-throughput Python data pipelines and RESTful APIs to deliver market data for a major U.S. asset manager, directly supporting quantitative research and trading algorithms.
- Led the end-to-end backend development of a data analytics platform using FastAPI, SQL, and SQL stored procedures; improved data processing efficiency by over 30% through automated feature engineering and ML model integration.
- Built an agentic text-to-SQL framework using LangChain, LangGraph, and vector databases (Pinecone) to enable natural language querying of complex financial datasets.
- Developed a high-performance Selenium application to extract and process social media data for sentiment analysis and market trend identification.

Projects

University of Colombo

Algorithmic Trading using Technical and Sentiment Analysis

Colombo, Sri Lanka

Aug 2023–Feb 2024

- Developed a web scraping pipeline using Selenium to gather Sri Lankan financial news; implemented a sentiment scoring model using Transformers (FinBERT).
- Designed and backtested an LSTM-based trading strategy combining technical indicators and sentiment scores, benchmarking performance against mean-reversion and buy-and-hold strategies.
- Keywords:** Sentiment Analysis, Time-Series, Deep Learning, Backtesting

Publications

2023: "A Stylometric Approach for Reliable News Detection Using Machine Learning Methods", with A.A. Sunethra, K.A.D. Deshani, 22nd ICTER Conference, DOI: 10.1109/ICTer58063.2022.10024096