Andrew Anantharajah

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EDUCATION

Stevens Institute Of Technology, Hoboken, NJ   Aug 2020 - May 2025
Bachelors of Computer Engineering
Awards - Edwin A. Stevens Scholarship
Coursework - Engineering Design, Applied Machine Learning, Digital System Design, Database Management Systems, Microprocessor Systems, Web Programming, Computational Data Structures and Algorithms, Solid State Devices

SKILLS

Software: AutoCAD, SolidWorks, Microsoft Office, Procore, Gimp, DaVinci Resolve, WordPress, Bluebeam Revu, Grafana, Oracle SQL, Vivado
Comfortable Operating Systems: Windows, MacOS and Linux/Unix
Certifications: OSHA 30, InfluxData Flux
Key Skills: C++, VBA, Python, JavaScript, SQL, VHDL, InfluxDB

PROJECTS

Applied Machine Learning: Using Social Media Sentiment To Predict Bitcoin Pricing   Mar 2025 - May 2025
- Computed VADER sentiment for every post and engineered 50 + features (lagged returns, rolling volatility, Twitter/Reddit scores, weighted compound index) stored in pandas/NumPy frames for fast modeling.
- Validated signal value with Granger-causality ($p = 0.019$ for Reddit lag-1; Twitter non-significant) and Diebold–Mariano tests (DM = 2.12, $p = 0.034$ versus naïve copy), confirming limited predictive power of daily sentiment.

Stevens Algorithmic Trading Competition 2024: Ol' College Try   Mar 2024 - May 2024
- Placed 6th out of 15 teams, had the highest Sharpe Ratio for Day 3.
- Managed team of three to meet weekly milestones throughout the entirety of the competition.
- Utilized Python to create an ARIMA model to predict future pricing of both real and simulated tickers, resulting in consistent profitable trading days.

WORK EXPERIENCE

Port Authority of New York New Jersey, New York, NY   May 2024 - Present
Data Analyst
- Utilized Python to automate report creation of daily spotcheck, reducing reporting time by 66%.
- Managed issue escalation with contractors for equipment issues and malfunctions across seven tolling plazas.
- Designed and implemented a PowerBI dashboard that organizes over 500,000 transaction data points into a user-friendly weekly summary across seven tolling plazas.

Taco Bell, Hoboken, NJ   May 2024 - Sep 2024
Shift-Lead / Interim Manager
- Managed weekly rotating inventory of perishable and non-perishable goods, ensuring no stockout during peak rush days.
- Trained multiple new hires on food preparation, safety, and cleaning procedures, leveraging conversational Spanish to ensure effective, specific communication across language barriers.
- De-escalated customer grievances while providing equitable solutions that upheld company values and customer satisfaction.

Members Exchange (MEMX), New York, NY   Sep 2023 - Dec 2023
DevOps Performance Engineer
- Assisted in load and performance testing of new Options Market, contributing to successful launch.
- Monitored trading data latency, bottlenecks, and points of failure to optimize trading time with Grafana and InfluxDB.
- Utilized React to create a graph interface for the User Portal that allowed for comparison of individual firms to the MEMX average trading latency.

Enica Engineering, New York, NY   Jan 2023 - May 2023
Engineering Intern
- Designed controls narrative document detailing HVAC sequence of operations for $2 billion Regeneron campus expansion.
- Verified contractor work during on-site field tests, ensuring compliance with specifications and standards.
- Created monthly trend reports to monitor and identify issues within building HVAC systems.

ACTIVITIES

Stevens Institute of Technology, Division III Track and Field Team   Aug. 2020 - Present
- Managed academics with the time commitment of 24-30 hours a week for practice, traveling, and meets
- Mentored and coached younger pole vaulters, providing personalized guidance through video analysis and hands-on training.