

Archie Deguzman

Objective

Senior in Computer Science with hands-on experience in algorithmic trading and financial technology development, seeking a Software Engineering Internship. Proven ability to develop and refine data-driven algorithms, with a strong foundation in Python, Java, and API Integrations.

Projects

Algorithmic Trading Bot with Technical Analysis *Python, Alpaca API*

- Built an automated trading bot using real-time data from Alpaca API that buys when price is above the 200 Exponential Moving Average (EMA) and sells when below it.
- Conducted extensive back testing to evaluate performance, adjusting risk parameters and optimize the strategy, though failed to become profitable.
- Developed skills in API integration as well as strategy evaluation in financial markets

Algorithmic Trading Bot with Price Action and Market Structure

Python, Alpaca API

- Constructed a complex trading bot based on market inefficiencies, key price levels, and market reversal with risk management protocols
- Face challenges with accurate swing high and low identification during testing, leading to further iterations and refinements.
- Demonstrated understanding of advanced trading concepts such as market structure and liquidity events, despite execution hurdles.

Work Experience

Team Member, Target Corporation

- Operated machinery such as the cart pushing machine, wave machine, and crown machine, ensuring operational efficiency in the store.
- Assisted customers in the tech department, helping with troubleshooting and product recommendations, leveraging strong problem-solving and communication skills.
- Handled multiple customer service roles, including cashier and guest services, adapting quickly to the guest’s needs while consistently providing excellent service.

Education

Sept 2024 - May 2026
**Bachelor of Science in
Computer Science**
Towson University –
Expected Graduation:
[May 2026]

Skills

- Python
- Java
- C++
- Alpaca API
- HTML
- CSS

Interests

- Data Science
- Algorithmic Trading
- Artificial Intelligence
- Analytics

Relevant Course Work

- Data Structures and Algorithms
- Calculus 2
- Introduction to Programming 2
- Discrete Math

