Aryaman Sarcar

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EDUCATION

Northeastern University, Boston, MA
Major: *B.S in Computer Engineering and Computer Science* May 2027
Course: Cornerstone 1& 2, Fundamentals of Computer Science 1 & 2, Differential Equations, Linear Algebra, Discrete Structures, Calculus 1, Calculus 2, Physics 1 & 2, Fundamentals of Network
Clubs: Northeastern Electric Racing Club

EXPERIENCE

Navikenz Inc. Princeton, NJ
AI Engineering Co-op Sep 2025 - Present

- Developed and tested AI agents for exploratory research in the life sciences domain, applying agentic AI methodologies to automate analysis and generate insights from complex datasets.
- Preprocessed, cleaned, and engineering features from real world life sciences data, improving the quality and efficiency of downstream model performance.
- Collaborated with the Chief Architect for Data & AI to design scalable agent workflows, document technical processes, and refine algorithms for reproducibility.

NEU Electric Racing Boston, MA
Software Handling Member Sep 2024–Dec 2024

- Contributed to the development of FinishLine, a full-stack web app used for project tracking and more
- Implemented frontend features utilizing Typescript and collaborated on backend API development.
- Collaborating with other individuals to broaden skills and gain more experience.

Vultus Inc. South Plainfield, NJ
Software Intern May 2023-August 2023

- Designed and developed UI wireframes for a stock tracker application, incorporating client requirements and iterative feedback for improvement.
- Utilized programming expertise and demonstrated adaptability to learn and apply new tools and concepts effectively.
- Demonstrated critical thinking, programming skills, and adaptability to learn new tools and concepts.

PROJECTS

Banking Simulator – *Personal Project* December 2024 - Present

- Engineered a Python-based banking system utilizing object-oriented programming (OOP) to manage account types, transaction logging, and dynamic operations, ensuring modularity and scalability.
- Implemented an automated simulation framework to model randomized financial transactions, including deposits, withdrawals, and interest accrual, showcasing algorithms and system automation expertise.
- Integrated data validation and error handling mechanisms to ensure the accuracy and security of the simulated financial operations.

Stock Trading Application – *Personal Project* March 2025 - Present

- Developed a full-stack trading simulator using Python (Flask) for the backend and HTML/CSS/JavaScript for the frontend, allowing users to buy/sell stocks with virtual funds and track portfolio performance in real time.
- Integrated real-time market data from the Alpha Vantage API and designed a SQLite database to securely store user accounts, trade history, and portfolio holdings.
- Implemented a basic algorithmic trading strategy (moving average crossover) and added data visualization with Chart.js, enabling users to view price trends and back test simple strategies.

SKILLS

Java, Python, C, C#, C++, MATLAB, Arduino, HTML, CSS, OOP, Linux, Javascript, Wireshark, MySQL, R, React, Flask, AI Development, NumPy, TensorFlow, PytTorch, Git, REST APIs