

# Rafan Ahmed

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## OBJECTIVE

Computer science student at UNC Charlotte with hands-on experience in **machine learning**, algorithmic trading, and full-stack web development. Passionate about building intelligent, **scalable systems** that **bridge data and decision-making**. Engaged in transforming complex problems into deployable, **high-impact** solutions. Eager to drive **data-driven solutions** where insight meets execution, combining technical depth, analytical precision, and **collaborative leadership** throughout the development lifecycle.

## TECHNICAL SKILLS

**LANGUAGES:** Python, Java, C, JavaScript, HTML/CSS

**ML & DATA:** TensorFlow, Scikit-learn, Pandas, NumPy, Time-Series Forecasting

**FRAMEWORKS & CLOUD:** Django REST, Google Gemini API, Next.js, Git/Github

**VISUALIZATION:** Matplotlib, Adobe Creative Suite

## EDUCATION

### UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

(Expected Graduation Fall 2026)

- B.S. Computer Science with concentration in AI & Robotics (GPA 3.32)
- *Relevant Coursework:* Computer Systems, Data Structures & Algorithms, Software Engineering, Matrices & Linear Algebra

## KEY PROJECTS

### ML TRADING STRATEGY - QUANTCONNECT RNN CASE STUDY

(Mar. 2025 - May. 2025)

- Built SimpleRNN pipeline with walk-forward validation; uncovered 3 critical overfitting pitfalls. Diagnosed and documented issues with lookahead bias, hyperparameter tuning, and simulation leakage..
- Open-sourced full project and presented findings at UNC Charlotte's College of Computing and Informatics as a learning case study in ML pitfalls.
- Demonstrates ability to diagnose model risk—vital for predictive supply-chain scenarios.
- Tools: Python, Scikit-learn, TensorFlow, Pandas, NumPy, QuantConnect, Pickle

### AI STUDY ASSISTANT - DJANGO WEB APP, GOOGLE GEMINI INTEGRATION

(Jan. 2025 - Apr. 2025)

- Co-developed a Django-based app that integrates Google Gemini API for real-time AI-powered learning assistance.
- Focused on backend integration, secure API handling, and collaborative software engineering practices.
- Integrated LLM endpoint for real-time query assistance.
- Tools: Django, REST APIs, Google Gemini API, Git

### EAGLE SCOUT, COMMUNITY CEMETARY CONSTRUCTION (MINI-SUPPLY-CHAIN SIMULATION)

(Sep. 2022 - Oct. 2022)

- Coordinated sourcing, logistics, and 20-person volunteer schedule over a 7-week period to deliver cemetery construction under budget & on time.
- Oversaw all aspects of project management, including site planning, task coordination, and scheduling.
- Demonstrated leadership, cross-community collaboration, and logistical execution in delivering a meaningful, community-centered infrastructure project.

## WORK EXPERIENCE

### SALES ASSOCIATE — STAPLES

(Jul. 2024 - Oct. 2024)

- Managed Amazon returns, order-fulfillment routing, and in-store inventory audits, processing 100+ SKUs daily.
- Analyzed sales-conversion data to upsell rewards program, increasing membership sign-ups 18%.
- Managed Amazon returns, order fulfillment, and customer support for retail and e-commerce operations.

### HOST — CO WAVERLY

(Jan. 2025 - Apr. 2025)

- Led front-of-house operations and maintained inventory for high-volume restaurant. Optimized seating turnover via data-driven waitlist adjustments; maintained inventory of dining supplies.
- Reinforced team efficiency and inventory replenishment practices—core concepts in supply chain management.

## REFERENCE

Available upon request