Farzad Ferdous

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EDUCATION

University of Massachusetts Amherst   Amherst, MA
Bachelor of Science in Computer Science, Minor in Business   *Aug. 2022 – May 2026*
Relevant Coursework: Data Structures and Algorithms, Accounting, Corporate Finance, Marketing, Programming Methodologies, Computer Systems Principles, Software Engineering, Computer and Network Security,

EXPERIENCE

Store Associate   May 2023 – July 2023
Staples   *Milford, MA*
- Delivered exceptional customer service by greeting and assisting customers, addressing inquiries, and providing product recommendations to enhance their shopping experience.
- Collaborated with team members and supervisors to achieve sales goals, including participating in promotional events and upselling related products to increase revenue.
- Provided support for various in-store services, such as printing and technology services, assisting customers with product setup and troubleshooting as needed.

PROJECTS

Finance Tracker | *React, Javascript/Typescript, HTML, CSS, Context API, Clerk*   April 2024 – May 2024
- Developed a Comprehensive Finance Tracker using React, leveraging state management and context APIs to handle financial records efficiently.
- Implemented Real-Time Data Handling by integrating context API for state management, enabling dynamic updates to financial records and ensuring data consistency across components.
- Integrated User Authentication with Clerk, enabling secure and personalized user experiences by managing financial records associated with individual user accounts.

Python Trading Bot | *Spigot API, Java, Maven, TravisCI, Git*   May 2024 – June 2024
- Developed a Trading Bot utilizing Python libraries including NumPy, pandas, and yfinance for data handling, and matplotlib for data visualization.
- Created Technical Indicators such as 30-day and 60-day Simple Moving Averages (SMA) to analyze market trends and generate trading signals.
- Calculated Strategy Performance by computing percentage changes and cumulative returns, providing insights into the profitability of the trading strategy.
- Developed a Reusable Strategy Function to apply the SMA trading strategy to different assets with customizable parameters, enhancing the flexibility and scalability of the trading bot.

CodeStrike | *Firebase, React, Node, Socket.io, Docker, CodeMirror*   September 2024 – December 2024
- Developed and launched Code-Strike, a competitive coding platform with real-time 1v1 coding battles, utilizing React (JS/TS) for dynamic front-end interfaces and Socket.io for real-time synchronization of timers, game updates, and code execution feedback.
- Implemented backend services with Node.js and Express, handling user authentication via Firebase, matchmaking logic, and database interactions, ensuring secure, high-performance real-time interactions and smooth user experiences.
- Integrated Docker to securely isolate and evaluate user-submitted code in scalable containers, preventing execution risks and enabling safe, efficient code testing in the platform's competitive environment.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, SQL, R
Frameworks: React, Node.js, MongoDB, JUnit, Express.js, Django, REST API
Developer Tools: GitHub, VS Code, Visual Studio, Microsoft Azure, Amazon Web Services, Google Cloud, PyCharm
Libraries: Pandas, NumPy
Other Skills: Microsoft Office