

Spencer Nash

☎ (718) 555-0146

✉ spencer.nash@example.com

🌐 linkedin.com/example/spencernash

📍 Brooklyn, NY 11215

SUMMARY

Computer Science student and emerging frontend developer focused on intuitive interfaces for real-time financial data and analytical workflows. Brings nearly two years of supervised research, academic development, and project-team experience with **JavaScript, React, Node.js, TypeScript**, Python, and C++. Built browser dashboards, streaming visualizations, REST services, and WebSocket integrations that turn large event sets into clear user experiences. Applies component design, API integration, testing, profiling, accessibility, and debugging practices when requirements remain open-ended. Enjoys finding issues early, proposing practical fixes, and sharing context with teammates. Ready to contribute curiosity, initiative, and steady execution during a mentored internship focused on scalable trading tools, performance, and collaborative delivery.

EDUCATION

Bachelor's Degree in Computer Science

2028

City College of New York GPA: 3.8

New York, NY

***Coursework:** Data Structures, Algorithms, Web Development, Software Engineering, Computer Networks, Database Systems*

TECHNICAL SKILLS

- **Frontend Frameworks:** React, React Testing Library, HTML
- **JavaScript Development:** JavaScript, TypeScript, Node.js
- **Backend Programming:** Node.js, Python, Java
- **Systems Programming:** C++, Java, Python
- **Web APIs:** REST APIs, JSON, WebSockets
- **Testing Tools:** Jest, React Testing Library, unit testing
- **Source Control:** Git, GitHub, version control
- **Browser Tools:** Browser developer tools, console tracing, profiling
- **Interface Engineering:** Responsive design, accessibility, keyboard navigation
- **Data Visualization:** Time-series charts, order-book views, streaming dashboards
- **Financial Technology:** Market data, equity orders, trading systems
- **Software Practices:** Component design, state management, API contracts

SKILLS

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|--------------|-------------|----------------------|-------------------------------|
| • JavaScript | • Python | • Data Visualization | • Independent Problem Solving |
| • React | • C++ | • REST APIs | • Performance Profiling |
| • Node.js | • Java | • WebSockets | • Technical Documentation |
| • TypeScript | • UI Design | • Team Collaboration | |

EXPERIENCE

Frontend Developer Research Assistant

September 2025 - August 2026

University Real-Time Markets Lab

New York, NY

Supported a five-person research group building browser tools for simulated equity-order streams. Owned interface components, streaming integrations, test coverage, and performance investigations, then presented design choices to faculty advisers and student researchers. Work connected market-event data with usable visual analysis and gave teammates a clearer base for weekly research decisions.

- Built a React and TypeScript dashboard for simulated **equity-order streams**, giving five researchers synchronized views of price, volume, latency, and execution events.
- Created reusable chart, filter, and alert components with documented props and state flows, helping teammates review interface changes during weekly demonstrations.
- Connected React screens with Node.js and **WebSocket** services replaying 250,000 timestamped market events, then used **browser profiling** to locate rendering bottlenecks.
- Added loading, empty-state, and connection-recovery behavior after usability reviews revealed confusion during interrupted feeds, improving confidence during analysis sessions.
- Wrote **Jest** and **React Testing Library** coverage for calculation helpers and interaction paths, catching regressions before research presentations.
- Presented implementation tradeoffs and **performance** findings to faculty advisers and student researchers, turning technical issues into clear next-step recommendations.

Frontend Developer, Trading Visualization Project

January 2025 - May 2025

City College of New York Capstone

New York, NY

- Contributed **frontend** and service development within a four-person capstone team analyzing simulated order-book data. Shaped React views, Node.js endpoints, Python preprocessing, accessibility refinements, and **technical documentation**. Project work helped student users compare market signals with less friction and gave faculty a practical demonstration of scalable interface thinking.
- Developed a **React** interface for simulated order-book analysis, connecting depth, spread, trade-history, and session-summary views for a four-person capstone team.
 - Implemented **Node.js** REST endpoints and **Python** preprocessing scripts that normalized 80,000 sample records, supporting consistent chart and table rendering.
 - Added **TypeScript** interfaces and modular state management, reducing data-shape errors as filtering and comparative analysis features grew.
 - Ran task-based testing with 12 student participants, then refined labels, keyboard flow, and visual hierarchy around observed navigation issues.
 - Added responsive layouts and accessible form controls, documenting setup steps, API contracts, and known limitations for smoother team handoffs.
 - Delivered a live demonstration and technical report that earned a faculty nomination for clear analysis and practical interface design.

JavaScript Developer, Market Data Course Project

September 2024 - December 2024

Student Software Studio

New York, NY

- Worked within a supervised three-student software studio on a browser-based market-monitoring prototype. Moved between JavaScript, React, Node.js, testing, and performance inspection while responding to instructor feedback. Contributions gave classmates a repeatable environment for exploring quote updates, threshold events, maintainable data flow, and interface usability.
- Created a browser-based market-monitoring prototype in **JavaScript** that displayed simulated quote updates and highlighted threshold events for classroom trading scenarios.
 - Implemented a **Node.js** service that generated repeatable test data and exposed JSON endpoints, letting teammates evaluate **frontend** behavior without external systems.
 - Applied **React** component patterns for tables, status badges, and time-series summaries, keeping data flow clear for peer extensions.
 - Diagnosed stale updates and duplicate renders through console tracing and performance inspection, then reorganized subscriptions and cleanup logic.
 - Added unit tests for formatting, sorting, and threshold calculations, recording cases in course delivery notes for repeatable review.
 - Coordinated a three-student review cycle and incorporated instructor feedback into a final presentation covering usability, **scalability**, and maintainable code.

PROJECTS

Streaming Market Event Explorer 📅 2026

Created a browser-based exploration tool for replayed market events, pairing React visualizations with Node.js and WebSocket services. Shared demos with lab peers, gathered feedback, and refined filtering, recovery states, and performance behavior for clearer analysis.

Order Book Analysis Workbench 📅 2025

Built a separate academic workbench for comparing simulated order-book snapshots through React views, Python data preparation, and REST integration. Focused on accessible controls, clean documentation, and a smooth path from raw records toward useful team discussion.

LEADERSHIP & AWARDS

- Dean's List, City College of New York, Fall 2025
- Undergraduate Research Presentation Honoree, University Real-Time Markets Lab, 2026
- Computer Science Department Merit Scholarship, 2024 - 2026
- Capstone Project Faculty Nominee for clarity of analysis and practical interface design, 2025
- Frontend Study Group Lead, City College of New York, 2025 - 2026
- Web Development Workshop Volunteer, Computer Science Club, 2025 - 2026

CERTIFICATIONS

- Meta Front-End Developer Professional Certificate 📅 2026
- JavaScript Algorithms and Data Structures 📅 2025
- AWS Academy Cloud Foundations 📅 2025

PROFESSIONAL AFFILIATIONS

- Frontend Study Group, City College of New York, Lead, 2025 - 2026
- Computer Science Club, Web Development Workshop Volunteer, 2025 - 2026

- Undergraduate Software Studio, Peer Reviewer, 2024 - 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST