

Spencer Nash

Application for Frontend Developer Internship



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AUGUST 25, 2026

Hiring Team
Northstar Market Systems
New York, NY

Dear Hiring Team,

I am applying for Northstar Market Systems' Frontend Developer Internship because my recent work has focused on making real-time financial data easier to understand and use. I am pursuing a Bachelor of Science in Computer Science at City College of New York, expect to graduate in May 2028, and have built interfaces and supporting services with JavaScript, React, TypeScript, Node.js, and WebSockets.

As a frontend developer research assistant in a university real-time markets lab, I built a React and TypeScript dashboard for simulated equity-order streams used by a five-person research team. The dashboard displayed price, volume, latency, and execution events, while a Node and WebSocket service replayed 250,000 timestamped events. When profiling exposed rendering bottlenecks, I investigated the data flow and browser performance rather than treating the issue as only a visual problem. I also added connection-recovery, loading, and empty-state behavior after usability reviews showed where interrupted feeds confused users.

My project work has also required me to move between interface design, backend development, testing, and performance debugging. In a trading-visualization capstone, I built views for order-book depth, spread, trade history, and session summaries, added Node REST endpoints and Python preprocessing, and used feedback from 12 student participants to improve labels, keyboard flow, and visual hierarchy. I documented API contracts and setup steps so teammates could extend the project, and I regularly present technical tradeoffs in clear, practical terms.

Northstar's combination of real-time interfaces, large data flows, and close collaboration with traders and senior engineers is a strong match for how I like to work. I would bring a habit of finding problems early, testing assumptions with users and tools, and taking ownership of useful improvements while asking for feedback when it matters. I would welcome the opportunity to discuss how I could contribute during the 2026 internship.

Thank you for your consideration.

Sincerely,

Spencer Nash

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