Andrew Nuisud

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Education

Boston University   **Expected Aug 2027**
Bachelor of Arts in Computer Science   *Boston, MA*
- **Relevant Coursework:** Database Systems, Computer Organization, Data Structures, Probability in Computing, Combinatoric Structures, Analysis of Algorithms, Full Stack Development, Software Engineering

Experience

CVS Health   **May 2026 – Aug 2026**
InnoTech Software Engineer Intern (Incoming)   *Woonsocket, RI (Hybrid)*
- Incoming InnoTech SWE intern (Aetna/CVS Health) with a focus on backend engineering and enterprise-scale systems.

PixelTools   **Jan 2025 – Present**
Founder, Backend Software Engineer   *Boston, MA*
- Generated **$3K monthly recurring revenue** from **100+ active subscribers** by building and operating a subscription-based trade automation platform with end-to-end backend ownership.
- Handled **40K+ weekly REST API requests** while sustaining **99% uptime** by implementing asyncio/httpx concurrency, retry/backoff logic, and production monitoring with fail-safe error handling.
- Increased execution throughput from **182 → 294 trades/hr** by implementing a real-time valuation engine that prices assets from live market signals and auto-executes trades above a configurable profit threshold.
- Improved time-to-action to **200 ms** for operator workflows by building a low-latency VPS console interface and optimizing request batching, caching, and asynchronous I/O across services.
- Enabled user-configurable automation policies (thresholds, rules, credentials) by designing a JSON-based configuration system with single-device licensing and secure authentication controls.

University of California   **Jul 2025 – Sep 2025**
Research Assistant   *Remote*
- Built Flask + NumPy backend with real-time data visualization and JSON export pipelines.
- Developed REST APIs for computational modeling and parameter optimization on experimental datasets.

University of California   **Jan 2025 – May 2025**
Teaching Assistant – Engineering Programming   *Merced, CA*
- Evaluated **700+** Python and C++ lab submissions for **90 students** with full turnaround via Gradescope.
- Hosted **12-hour weekly** sessions, resolving **240+** debugging issues with **94%** positive feedback.

Bay Valley Tech   **Aug 2023 – Jan 2024**
Software Development Intern   *Remote*
- Deployed Flask service with server-side rendering and caching, cutting load times **40%** for 100+ daily users.
- Reviewed **31 PRs** in a 4-developer team, reducing turnaround from **26h to 15h**.
- Raised test coverage from **25% to 70%** by adding **40** unit and integration tests.

Projects

Backend Banking System | *Java, Spring Boot, SQL*
- Engineered secure RESTful API using DTO validation, Spring Data JPA, and JWT role-based access control.
- Optimized concurrent fund transfers with Redis caching and indexing, sustaining **5,000+** concurrent transactions at **84 ms** latency.

Meal Tracker AI | *TypeScript, React Native, Firebase, OpenAI API*
- Built React Native app using GPT-4 Vision and Firestore to extract nutrition data from food labels, reducing manual entry and error rates.

Achievements

Hewlett Packard Enterprise CodeWars Programming Competition   **2023**
3rd Place Winner (Top 1.5% of 50+ groups)

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, C++, SQL, HTML/CSS
Frameworks & Libraries: React Native, Expo, Node.js, Express, Spring Boot, Flask, FastAPI, Redux, Selenium, Django
Tools & Systems: Git, Docker, GitHub Actions, REST APIs, AsyncIO/httpx, Linux, Kubernetes, Jenkins
Concepts: Backend Systems, Distributed Systems, Microservices, Networking, System Design, Agile/Scrum
Databases & Cloud: Google Cloud, AWS (EC2, Lambda, RDS), PostgreSQL, MongoDB, Redis, Kafka, GraphQL