

Luke Waehner

luke.waehner@gmail.com | (203) 671-9021
github.com/lukewaehner | Boston, MA | Available: July 2026

EDUCATION

Northeastern University, Boston, MA

Bachelor of Science in Computer Science and Fintech

Dec. 2026

Honors: GPA: 3.83 / 4.00, Dean's List, Best Business Plan Award, Manresa Scholar,

Related Courses: Object-Oriented Design, Algorithms and Data, Introduction to Databases, Computer Systems, Mobile Application Development, Discrete Mathematics, Investments, Profit Analysis for Managers and Advisors, Financial Management, Public Speaking, Fintech and Fin Innovation, Investments

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, Rust, HTML, CSS, Swift, R

Tools / Frameworks: React, AWS, Electron, MongoDB, SQLite, Node.js, CI/CD Pipelines, IntelliJ, Git

EXPERIENCE

Backend Software Engineer, **Smartleaf**, Boston, MA

Jan 2026 - Present

- Developed and extended tree-structured portfolio allocation reporting module, supporting complex nested security hierarchies, supporting **\$110 Billion** in AUM.
- Engineered a Cash Sweep automation system that selected the target money market fund per account and executed USD-to-MMF conversions platform-wide across all enrolled client accounts.
- Designed a **PostgreSQL A/B** testing harness that replayed **~1M** portfolios against PG14 and PG18 in parallel, validating output parity and latency across APIs, reports, load balancing, and account filtering before the version upgrade
- Served as release master, curating ticket selection, cut release tags, published release notes, and promoted builds through sandboxed environments while monitoring production release tag.
- Led weekly incident report meeting, triaged production error emails, maintained decision log of root causes and remediations, tracked platform health in **Superset** across average DB write SQL seconds, API wait times, hourly traffic, and **connection pool thread counts**.

Full Stack Software Engineer (Founder), **Code Works**, Boston, MA

May 2024 - Sep. 2025

- Developed custom CRM systems using Google Workspace APIs and App Script to automate onboarding, scheduling, and reporting, thereby reducing setup time by 55%, later distributed to 100+ professionals serving hundreds of downstream clients.
- Designed dynamic web interfaces and custom menus using HTML, CSS, and JavaScript, creating user-friendly dashboards and onboarding tools that improved client adoption.
- Integrated Google Sheets, Gmail, and Calendar into unified workflows, enabling real-time data sync and automated client communications, saving hours of manual work weekly.

Wealth Management Intern, **Riverside Financial**, Riverside, CT

May 2023 - Aug. 2023

- Automated ETF data collection and reporting by integrating the Morningstar API with VBA and Excel, reducing manual data retrieval time by 70%.
- Conducted technical analysis (**RSI**, **MACD**) and portfolio risk assessment, supporting retirement goals across **\$100M+** in assets.
- Delivered daily market insights and tailored investment research to senior advisors, enhancing decision-making and improving client engagement.

PROJECT EXPERIENCE

Developer, **Rust Order Book**, Tech. Stack: Rust, Axum, Tokio, WebSockets

Sep. 2025

- Built exchange-simulation platform with order book, trade execution, and real-time WebSocket/REST APIs for order flow and market data.
- Designed lock-free matching engine processing 1.3M orders/sec with sub-microsecond latency using memory-efficient, zero allocation data structures.
- Implemented scalable WebSocket layer with concurrent order entry, execution notifications, and live book snapshots.
- Developed benchmarking suite to validate throughput, latency, and stability under 200M+ orders/minute workloads.