Aden Lazarus

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EDUCATION

Boston University — **May 2027**
Bachelor of Arts in Mathematics and Computer Science — Boston, MA
GPA: 3.98
Relevant Coursework: Software Engineering, Computer Systems, Analysis of Algorithms

EXPERIENCE

Software Development Intern — **Jun. 2025 – Aug. 2025**
Trillium Trading — New York, NY
- Implemented low-latency statistical signal extraction features into proprietary trading software.
- Refactored and accelerated algorithm to achieve **100ms** execution across all instruments in real time.

Junior Software Engineer — **Sep. 2024 – May 2025**
GoTu — Miami, FL
- Optimized data pipeline by rebuilding caching logic to reduce message processing time from **400ms** to **7ms**.
- Built Terraform pipeline into 3 microservices, standardizing infrastructure provisioning and significantly improving deployment consistency and scalability.
- Pioneered distributed tracing methodology to allow improved observability on process latency.

Software Engineering Intern — **May 2022 – Aug. 2024**
GoTu — Miami, FL
- **2024**: Shipped analytics pipeline handling over **1.1 million** events daily utilizing Go, PostgreSQL, and RabbitMQ to power Datadog dashboards. Integrated Salesforce API with main backend to enrich CRM efforts.
- **2023**: Built automatic verification service utilizing Go, PostgreSQL, and a REST API reducing onboarding time by **over 70%**. Automated credential data ETL processes utilizing AWS Lambda and EventBridge.
- **2022**: Utilized clustering algorithms to retrospectively analyze company data and developed a scalable statistics page using React and AWS Lambda for accurate performance metrics.

SELECTED PROJECTS

CheckmAIte | *Go, Node.js, PostgreSQL, React* — **Oct. 2025**
- Built full-stack platform where users create chess AI bots to compete in real-time ranked matches.
- Developed Go backend handling authentication, matchmaking, and bot storage with PostgreSQL, and Node.js chess engine utilizing websockets to facilitate real-time gameplay and move validation.
- Implemented React + Pyodide frontend, enabling users to code and test bots safely in-browser.

Paper Trader | *Python, Flask, SQLite, AlphaVantage API* — **Dec. 2024**
- Course capstone; backend server implementing mock trading of equities.
- Led team of three to build testing suite with **over 94%** coverage.
- Integrated AlphaVantage API for real-time equity data.

Boston University Course Planner | *Go, PostgreSQL, React* — **May 2023**
- Built algorithm in Go optimizing course selection for efficient hub completion.
- Stored course and user information in PostgreSQL database
- Created React frontend with intuitive UI for streamlined academic planning.

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, C++, SQL, Java, OCaml
Cloud & DevOps: AWS (Lambda, S3, EventBridge, RDS), Terraform, Docker, ArgoCD
Data Stores: PostgreSQL, Redis, MongoDB, SQLite
Concepts: Microservices, Event-Driven Design, Low-Latency Systems, Observability