

Brian Maina

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EDUCATION

Boston University

Boston, MA

B.A. in Computer Science and Economics, GPA: 3.3/4.0

Expected May 2027

- Relevant Coursework: Data Structures, Analysis of Algorithms, Software Engineering, Probability/Statistics

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java, C++

Frameworks & Libraries: React.js, Node.js, Express.js, FastAPI, SQLAlchemy, Streamlit

Databases & Infrastructure: PostgreSQL, Redis, Docker, APScheduler

Tools & Platforms: Git, Jest, Supertest, Render, Railway, Vercel

WORK EXPERIENCE

Software Engineer Intern

Sep 2025 – Dec 2025

Portal (EdTech Startup)

Remote

- Built an ATS resume-scoring feature supporting PDF/JSON inputs, improving parsing accuracy by 25%.
- Reduced ATS analysis response time implementing Redis caching (24h TTL) for frequently requested resumes.
- Wrote 360+ automated tests across auth, recovery, and payments using Jest/Supertest, cutting QA time by ~60%.

PROJECTS

StatementWrapped | *FastAPI, PostgreSQL, Redis, React, Docker* | [Live Demo](#)

Feb 2026 – Present

- Built a spend intelligence platform: 4 bank parsers, 6 REST endpoints, OpenAI categorization, ~4,700 LOC.
- Engineered multi-bank CSV normalization (~1ms/100 rows); Redis caching reduces retrieval to ~10ms.
- Shipped React SPA with 18 components and visualizations; CI/CD via GitHub Actions with 20 automated tests.

NutriCheck | *Java, Android, USDA FoodData Central API, FatSecret API* | [Link](#)

Jan 2026 – Present

- Built a multi-source data pipeline integrating USDA and FatSecret APIs to normalize nutritional and allergen data.
- Developed a health scoring algorithm (0-100) evaluating ingredients against user medical conditions and goals.
- Implemented barcode scanning with manual UPC fallback, routing results through the backend pipeline in real time.

TriLive | *Python, FastAPI, PostgreSQL, SQLAlchemy, Redis, APScheduler, Docker* | [Link](#)

May 2025 – Jan 2026

- Reduced arrival lookup latency by 32x (16ms → 0.5ms) using Redis caching on the Portland transit system.
- Deployed a real-time transit backend serving live vehicle data across 5+ REST APIs with health-check endpoint.
- Containerized FastAPI/PostgreSQL/Redis with Docker; added Redis Geo queries and APScheduler sync jobs.

LEADERSHIP & ACTIVITIES

Treasurer

May 2025 – Present

Boston University German Culture Club

Boston, MA

- Grew membership by 55% (60 to 93 members) through targeted cultural events and external collaborations.
- Manage a \$1,780 semester budget, overseeing purchase requests, reimbursements, and event financial planning.

Assistant Lead Outreach

Sep 2024 – May 2025

Engineers Without Borders (Boston University Chapter)

Boston, MA

- Reduced projected well-construction costs by 60% (\$50,000 to \$20,000) by sourcing alternative contractors.
- Cut project turnaround time by 30% coordinating 5+ engineers on bid analysis for the Ogiek Kwanza Project.

Co-founder

Jun 2023 – Sep 2023

Digify Dubai

Dubai, UAE

- Co-founded a digital literacy initiative featured in the Khaleej Times, training 30+ migrant workers weekly.
- Sourced and deployed 20 laptops, achieving 100% equipment availability across all workshop sessions.
- Delivered training modules on language learning and mobile banking to 30+ migrant worker participants.

Member

Jan 2026 – Present

Hack4Impact

Boston, MA

- Participating in engineering workshops and technical curriculum focused on software for social impact organizations.