

Aaron Brown

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PROFESSIONAL STATEMENT

MS Software Development candidate at Boston University transitioning from a multidisciplinary background in audio engineering, hospitality, client relations, entrepreneurship, and management into software development. Full-stack builder with hands-on experience designing backend APIs, working with relational data models, deploying cloud-based systems, and applying secure software practices. Known for understanding user needs, operational ownership, fast learning, and reliable execution in technical and client-facing environments.

EDUCATION AND CERTIFICATIONS

Boston University MS in Software Development (August 2026)

- **Relevant Coursework:** Information Structures with Python; Database Design and Implementation; Data Structures and Algorithms; Secure Software Development; Advanced Programming Techniques; Software Design and Patterns; Software Engineering; Advanced Machine Learning and Neural Networks.

Berklee College of Music - Bachelor of Arts in Songwriting - Audio Engineering Minor

EXPERIENCE

Local Dog - Web Developer (2025 - Present)

- Launched a production Shopify app using Liquid, JavaScript, platform APIs, and responsive customer workflows.
- Supported nearly \$10K in revenue by maintaining e-commerce workflows, integrations, and user-facing features.
- Translated business needs into scalable product, payment, order-management, and integration flows.

Hot Take Recording Co - Founder, Engineer, Web Developer (2018 - Present)

- Managed technical delivery workflows across stakeholder needs, troubleshooting, documentation, and releases.
- Designed and deployed the company website on Vercel with AWS integrations including S3 and Route 53.
- Led client-facing projects, debugged production issues, reviewed details, and maintained reliable web workflows.

Numerous Hospitality Roles (2017 - Present)

- Built strong interpersonal and communication skills in high-pressure, customer-facing environments.
- Collaborated across teams, resolved issues in real time, and maintained consistent service quality under pressure.

PROJECTS

Build Fellowship - Dental Data Pipeline (2025)

- Built and deployed a secure, containerized backend API using FastAPI, Python, PostgreSQL, Docker, and API contracts.
- Improved reliability through pytest testing, debugging, GitHub review, CI/CD checks, and security scanning.
- Protected sensitive data using encryption, bcrypt, Pydantic schemas, access-control concepts, and backend validation.

HealthNest - Full-Stack Healthcare Platform (2026)

- Built healthcare features end-to-end using FastAPI, React, PostgreSQL, Docker, REST APIs, and Agile practices.
- Shipped scheduling, secure messaging, lab workflows, relational schemas, pytest tests, Jest tests, and patient/provider logic.
- Contributed across backend, frontend, QA, documentation, code review, CI/CD, security testing, and AI-assisted features.

SKILLS SUMMARY

Software: Python, Java, JavaScript, React, SQL, REST APIs, FastAPI, PostgreSQL, pytest, Jest, Git, GitHub review, Agile SDLC, debugging, AI-assisted development, and full-stack development.

Computer Science: Data structures, algorithms, object-oriented programming, networking fundamentals, database design, API design, software architecture, machine learning concepts, and secure coding.

Backend & Data: RESTful APIs, relational modeling, schema design, data validation, backend services, SQL workflows, automation workflows, technical documentation, and user-facing features.

Cloud & Quality: Docker, AWS, Azure SQL, Google Cloud Run, Vercel, Heroku, CI/CD workflows, GitHub Actions, automated testing, security scanning, code review, and deployment workflows.

IBM Full Stack Software Developer (2025): Hands on development with modern languages, frameworks, and serverless systems.

Google Cybersecurity Certificate (2024): Core security concepts and hands-on experience with industry security tools.

Udemy Cloud Computing on AWS (2024): Core AWS services with emphasis on secure, scalable system architecture.