Derek Barbosa

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Education

University of Massachusetts Amherst   Amherst, MA
Bachelor of Science in Computer Science   Expected May 2026
Relevant Coursework: Databases, Web Development, Computer Networks, Software Engineering

Massasoit Community College   Brockton, MA
Associate of Science in Computer Science (Transfer)   May 2024
GPA: 3.6

Technical Skills

Languages: Python, Java, JavaScript/TypeScript
Frameworks: FastAPI, React, Node.js, HTMX
Tools: Git, Docker, PostgreSQL, SQL
Concepts: REST APIs, Authentication, Authorization, Relational Databases

Projects

Trailies Web App - FastAPI, PostgreSQL, HTMX, Docker   2025
· Developed a full-stack trail discovery and review platform with secure login and user signup
· Built session-based authentication using secure cookies
· Implemented role-based authorization with separate admin and user permission
· Designed and implemented RESTful API using FastAPI with PostgreSQL relational database to manage users, trails, and reviews
· Implemented dynamic frontend interactions with HTMX for real-time review submissions and rating updates
· Containerized application using Docker for consistent local development environment