Adetola Adetunji

adetolaadetunji08@gmail.com • (832) 486-0739 • linkedin.com/in/adetola-adetunji • adetola.dev

EDUCATION

University of Texas at Austin | Austin, TX   **Expected May 2029**

B.S. in Computer Science, Minor in Statistics & Data Science, Concentration in Machine Learning & AI

PROJECTS

RESTful Spotify API Service | *Java, Spring Boot, REST API, Jest*
- Developed a backend service to integrate **real-time music data** into a web application, utilizing **60-second HTTP caching** to reduce average response latency by ~**40%** on subsequent requests.
- Engineered a **REST API** using **Spring Boot** and **Java** that maintains **sub-second** end-to-end response times while implementing **OAuth2** flows for session management and token refreshing.
- Designed **4** custom JSON endpoints to filter and structure track and playlist data with an average response time of ~**50-100ms** for frontend integration.
- Created a Jest test suite with **91.48% statement coverage** and **zero critical vulnerabilities** across 17 test cases, gracefully handling potential errors.

InboxOrganizer | *Python, Google Cloud Platform (GCP), Docker, Ollama*
- Built an AI-powered Gmail organizer utilizing **Llama 3.1 8B** via **Ollama** to categorize high volumes of email, with a recommendation engine that analyzes batches of **50+ untagged emails** to suggest new labels.
- Optimized **LLM performance** by implementing body truncation to **500 characters** and **regex-based string cleaning**, ensuring category outputs are concise and accurately formatted for the Gmail UI.
- Automated secure email management using the **Gmail API** and **OAuth2**, featuring persistent session handling with token.json to eliminate manual re-authentication.
- Containerized the solution with **Docker**, configuring environment variable isolation for **Ollama** host management and cross-platform deployment.

EXTRACURRICULAR ACTIVITIES

Sustainable Building Initiative (**SBI**) | *Software Engineer*   **September 2025 - Present**
- Engineered a scalable, schema-driven questionnaire engine using TypeScript and React, reducing frontend boilerplate by ~**80%** while supporting **5+ distinct input types** and real-time validation for **13+ mission-critical data points**.
- Architected a "**Decision Tree**" logic system that automatically processes client input to trigger **3 specialized downstream workflows** (Civil Engineering, Mechanical Systems, Finance), designed to scale to **10+ conditional branches**.
- Designed a reactive intake dashboard featuring real-time status tracking and automated "Missing Required" validation, serving as the **central source of truth** for **5+ internal departments** to monitor project lifecycle progress.
- Implemented dynamic routing capabilities that conditionally unlock backend forms based on project requirements (e.g., specific infrastructure needs), **streamlining the data collection process** for complex, multi-stage projects.

PROFESSIONAL EXPERIENCE

Mountain Mike's Pizza | *Team Member*   **March 2025 - May 2025**
- Provided excellent customer service in a fast-paced environment, managing **40+ transactions per shift** while handling orders and **resolving 95%+ of customer issues** independently.
- Collaborated with a team of **5+ members** to maintain high standards of quality and cleanliness, ensuring **100% compliance** with health and safety protocols.
- Assisted in training **2+ new staff members** on store operations and the efficient use of **POS systems** to reduce order processing time.

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, Javascript, Typescript

Frameworks/Technologies: RESTful APIs, Docker, Spring Boot, Git, Google Cloud Platform, Ollama, Jest, React

Relevant Coursework: Data Structures & Algorithms, Discrete Math, Multivariable Calculus