Michael Rodriguez

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Experience

Back End Software Engineer, Praxiio – Hybrid
April 2025 – Present

- Architect and build production healthcare SaaS infrastructure on Microsoft Azure, specializing in FHIR-compliant distributed systems.
- Designed and deployed **7 production microservices** supporting clinical, billing, and patient data workflows.
- Developed a **Patient API with 23+ REST endpoints**, implementing probabilistic patient deduplication, ACID-compliant onboarding transactions, and multi-tenant organization scoping.
- Engineered Azure cloud infrastructure using **Container Apps, API Management, Event Hub, and private networking**, enabling secure, scalable, HIPAA-aligned services.
- Built enterprise billing and clinical workflow services integrating **Stripe APIs**, clinical documentation pipelines, and medication safety verification systems.
- Owned end-to-end system delivery including **Docker containerization, CI/CD pipelines, OpenAPI specs, and production deployment documentation**.
- Designed **Azure SQL data layers** for non-FHIR services such as authentication, RBAC, user logins, tenancy, and billing metadata with normalized schema design and transactional integrity.

Computer Science Teacher, IT Technician, Weston Christian Academy
September 2024 – April 2025

- Taught foundational programming, computer literacy, and systems concepts to elementary and middle school students
- Designed a curriculum covering Python, web fundamentals, and core CS principles while fostering problem-solving and analytical thinking.
- Supported and troubleshot enterprise IT environments, including PCs, VoIP systems, smartboards, cameras, and network infrastructure.
- Administered **Google Admin** and assisted with **Windows Server and Active Directory** environments.
- Worked hands-on with switches, access points, and complex security camera systems.

Projects

Projects

Local LLM Control Panel (Project Saturn) | AI Systems Platform
Python, JavaScript, MongoDB, Ollama API

- Built a desktop AI control panel for running and managing local LLMs without cloud reliance.
- Developed a streaming chat interface with configurable parameters (temperature, context length).
- Implemented system introspection for RAM/VRAM usage, disk footprint, and model metadata.
- Created tools for model installation, deletion, and performance benchmarking (tokens/sec, memory).
- Integrated local-file RAG and a lightweight multi-agent "Council" system optimized for constrained hardware.
- Focused on privacy-first AI workflows for power users and developers.

Full-Stack Bookstore Management System
Java (Spring Boot), Vue.js, MongoDB

- Developed a full-stack bookstore platform simulating a real-world e-commerce system.
- Built RESTful backend services for users, books, orders, inventory, and payments using Spring Boot.

- Created a responsive Vue.js frontend for browsing, carts, accounts, and admin inventory management.
- Designed optimized MongoDB schemas modeling users, orders, and transaction records.
- Implemented authentication, RBAC, CRUD operations, search/filtering, and transactional order processing.
- Applied advanced database design concepts including normalization trade-offs and indexing for performance.

Skills

Languages: C#, SQL, JavaScript, Java, Python, HTML, CSS
Frameworks & Platforms: ASP.NET Core, Spring Boot, Vue.js
Cloud & DevOps: Microsoft Azure, Azure Container Apps, API Management, Docker, GitHub Actions, CI/CD
Databases: SQL Server, EF Core, MongoDB
Architecture: Microservices, REST APIs, Cloud-native design, Scalable systems
AI Workflow Tools: ChatGPT, Claude, Gemini, local LLM tooling

Education

Florida International University – BA in Computer Science   May 2024