

Maria Rodriguez

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EDUCATION

Florida International University

Bachelor of Arts in *Computer Science*

Certificate in *Cybersecurity Intelligence & Information Policy*

- **GPA:** 3.72 – Magna Cum Laude
- **Scholarships & Awards:** Magna Cum Laude, Dean's List: Fall 2023 – Summer 2025, Academic Achievement Award

Miami, Florida

Graduated - August 2025

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, Node.js, Express, Django, Spring Boot, Flask, TensorFlow, OpenCV

Cloud & DevOps: AWS (EC2, Lambda, S3), Docker, Git/GitHub, Postman

Databases: PostgreSQL, MongoDB, MySQL

ENGINEERING PROJECTS

Nexus: Full-Stack Supply Chain Visualizer | [Source Code](#) **Java** | **Spring Boot** | **React** | **PostgreSQL** | **Docker**

- Designed 20+ REST endpoints across shipments, inventory, and analytics resources using Spring Boot and Spring Data JPA
- Secured all routes with Spring Security + JWT stateless authentication and configured CORS for cross-origin requests
- Dockerized backend with multi-stage builds and deployed via Render Blueprint IaC with Leaflet maps and Chart.js

JETSET: Franchise Intelligence Dashboard | [Source Code](#) **TypeScript** | **Next.js** | **Prisma** | **SQLite** | **Gemini API**

- Built a Next.js/TypeScript platform with SSE live alerts, Gemini streaming AI, and FTS5 search across 69 locations
- Designed an 8-model Prisma schema with strict server/client boundary - all ORM queries server-side only
- Engineered a sigmoid churn model (AUC 0.841) scoring 15K+ members with feature importance and an ROI calculator

GenAI: Voice-Driven AI Mock Interview App | [Source Code](#) **React** | **Node.js** | **Groq** | **Whisper** | **Llama 3**

- Orchestrated voice-to-AI pipeline using Groq Whisper Large v3 for transcription and Llama 3 70B for follow-up generation
- Implemented real-time audio capture via MediaRecorder and Web Audio APIs with text fallback and browser-native TTS
- Built modular Express backend with rate limiting (30 req/15 min), response sanitization, and separated prompt templates

Atmosphere Analyzer: Real-Time Monitoring | [Source Code](#) **Python** | **Django** | **React** | **Docker** | **WebSockets**

- Streamed live weather and AQI data via token-authenticated WebSockets with Redis scaling and HTTP polling failover
- Engineered a 4-layer data fallback across live APIs, EPA PM2.5-to-AQI conversion, and DB-persisted simulation
- Implemented z-score anomaly detection per city with real-time forecast panels, heatmaps, and CSV/PDF export

PROFESSIONAL EXPERIENCE

Technical Operations Associate

June 2022 – Present

JETSET Pilates

- Administered Mindbody platform for scheduling, payments, and account management as primary technical point of contact
- Diagnosed and resolved client-facing booking and payment failures through systematic troubleshooting
- Maintained internal system workflows and supported technical onboarding for new staff

Full-Stack Web Developer

January 2019 – November 2020

Style Link Miami

- Overhauled Shopify storefront by replacing the theme entirely, rebuilding navigation, collections, and product organization
- Maintained live site with ongoing frontend updates, product listings, and content changes
- Configured third-party Shopify apps and set up SEO metadata, including page titles and meta descriptions sitewide

Web Developer & Marketing Intern

July 2018 – December 2018

Hannah Bella Collections

- Built brand's first Shopify storefront from scratch, configuring checkout, payments, shipping, and store settings end-to-end
- Developed product catalog, navigation, and collections with custom HTML and CSS in mobile-friendly layouts
- Integrated third-party apps and set up SEO foundations to support the brand's initial e-commerce launch