

Maria Rodriguez

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EDUCATION

Florida International University

Bachelor of Arts in Computer Science

Certificate in Cybersecurity Intelligence & Information Policy

Miami, Florida

Expected Graduation, August 2025

- **Scholarships & Awards:** Dean's List: Fall 2023, Spring 2024, Fall 2024

RELEVANT COURSEWORK

Data Structures & Algorithms, Software Engineering, Computer Architecture, Operating Systems, Discrete Mathematics & Calculus, AI, Object-Oriented Programming, Database Management

TECHNICAL WORK EXPERIENCE

Technical Solutions Specialist

June 2022 – March 2025

JETSET Pilates

Miami, Florida

- **Engineered solutions** to technical issues and **optimized application performance**, achieving a **100% resolution rate** and ensuring seamless client onboarding.
- **Maintained and optimized** payment systems and business records, ensuring **data integrity** and improving **operational efficiency** by streamlining workflows, **reducing processing time by 25%**.

Full-Stack Web Developer

July 2018 – November 2020

Style Link Miami / Hannah Bella Collections / VSP Studios

Miami, Florida

- **Designed** responsive e-commerce websites using **HTML**, **CSS**, and **CMS** platforms, **optimizing layouts** and **enhancing site performance by 20%**.
- **Developed** and maintained **back-end** systems to ensure seamless functionality, including inventory management, bug resolution, and integrating **digital marketing strategies** that **boosted sales performance by 25%**.

ACADEMIC PROJECTS

Atmosphere Analyzer: Smart Data Visualization Tool | [Source Code](#) Python | AWS (Lambda, S3) | React | Django

- **Optimized an environmental monitoring system** by leveraging **AWS Lambda** for **dynamic data processing**, increasing efficiency by **35%**. Integrated **AWS S3** for scalable storage, **cutting retrieval latency by 40%** and enabling **real-time analysis** of environmental metrics. Designed a **Django API** and **React** dashboard to enable data-driven decisions.

Micro-Investment Education Platform | [Source Code](#) React | Node.js | Express | MongoDB | Alpha Vantage API

- **Engineered a full-stack educational platform** that improved market trend **analysis accuracy by 40%** through real-time **data integration**. Engineered a **React-based UI** with **Node.js** and **Express** backend, optimizing **MongoDB** performance to manage user transactions and rankings. Integrated **Alpha Vantage** and **NEWS APIs** for real-time market insights.

FraudWatch: Credit Card Fraud Detection System | [Source Code](#) Python | Flask | Pandas | scikit-learn | Plotly

- **Achieved 92% fraud detection accuracy** using **machine learning** by implementing a **Random Forest** classifier in Python. **Reduced false positives** through feature selection and hyperparameter tuning, **enhancing fraud detection** reliability. Built an **interactive confusion matrix heatmap** with **Plotly** and integrated the model into **Flask** for real-time fraud classification.

EcoHabits: Sustainability Tracker | iOS Application | [Source Code](#) Swift | SwiftUI | Xcode | Hugging Face API

- **Developed** an iOS app using **Swift/SwiftUI** to promote sustainable habits, integrating an **AI-powered assistant** via the **Hugging Face API** to provide personalized environmental **impact insights**. Implemented behavior tracking and **data-driven** recommendations, helping users adopt eco-friendly practices while **enhancing engagement** with an intuitive UI.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, HTML/CSS, JavaScript, C, C++, Swift

Cloud Platforms: AWS (EC2, Lambda, S3)

Libraries/Frameworks: Spring Boot, Node.js, Express, React, Django, Flask, Git/GitHub

Databases: PostgreSQL, MySQL, MongoDB