

# Maria Rodriguez

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## EDUCATION

### Florida International University

Bachelor of Arts in *Computer Science*

Miami, Florida

Expected Graduation, August 2025

GPA: 3.6/4.0

- **Certifications:** Cybersecurity Intelligence & Information Policy
- **Scholarships & Awards:** Dean's List: Fall 2023, Spring 2024, Fall 2024
- **Related 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

JETSET Pilates

June 2022 – December 2024

Miami, Florida

- **Engineered solutions** to technical issues, troubleshooting application and booking system problems to **enhance performance and user satisfaction**, while ensuring seamless client onboarding with a **100% resolution rate**.
- **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

Style Link Miami / Hannah Bella Collections / VSP Studios

July 2018 – November 2020

Miami, Florida

- **Designed** and deployed responsive e-commerce websites using **HTML, CSS**, and **CMS** platforms such as Squarespace and Shopify, **optimizing layouts and enhancing site performance by 20%**.
- **Engineered and maintained back-end** systems to ensure seamless functionality, including inventory management, bug resolution, and integration of **digital marketing strategies** that drove a **25% increase in sales performance**, and the seamless execution of all features, optimizing operational workflows.

## ACADEMIC PROJECTS

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

- **Accomplished fraud detection** using **machine learning** by implementing a **Random Forest** classifier in **Python** to identify fraudulent credit card transactions, utilizing **Pandas** for data manipulation and **StandardScaler** for feature scaling. Built an **interactive confusion matrix heatmap** created with **Plotly** to visualize model performance and display classification results through a **Flask** web application.

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

- **Engineered** an educational platform for beginner investors to explore strategies, assess risks, and analyze market trends. Utilized **React** for a responsive UI and **Node.js** with **Express** for backend processing and **API** integration. **Managed** user data, virtual currency, transaction history, and rankings using **MongoDB**. Incorporated **Alpha Vantage** and **NEWS APIs** for real-time market insights to enhance decision-making.

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

- **Optimized** an environmental monitoring system simulating real-time sensor data using **Python**, integrating **AWS S3** for scalable data storage and **AWS Lambda** for **dynamic processing**. Deployed **Django API** for data delivery and **created** an intuitive, data-rich **React** dashboard to visualize environmental metrics, enabling insights for sustainable resource management.

### 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**. Integrated personalized guidance on environmental impact and behavior tracking. **Implemented** an impact tracker to visualize progress, encouraging eco-conscious habit formation and fostering a community of users.

## TECHNICAL SKILLS

**Languages:** Java, Python, MySQL, HTML/CSS, JavaScript, TypeScript, C, C++, Swift

**Developer Tools:** Postman, Maven, Gradle, Git/GitHub, Cloud Platforms: AWS, Lambda, S3, MongoDB, Xcode

**Libraries/Frameworks:** Spring Boot, Fast/REST API, Node.js, Express, React, SwiftUI, Django, Flask