# Maria Rodriguez

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## EDUCATION

**Florida International University**                                                                                          **Miami, Florida**
*Bachelor of Arts in* **Computer Science**                                                                       *Graduated - August 2025*
Ce*rtificate in* **Cybersecurity Intelligence & Information Policy**
- **GPA:** 3.72 – Magna Cum Laude
- **Scholarships & Awards:** Dean's List: Fall 2023 – Summer 2025, Academic Achievement Award

**Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Computer Architecture, Operating Systems, Discrete Mathematics & Calculus, Machine Learning, Object-Oriented Programming, Database Management

## TECHNICAL SKILLS

**Languages & Frameworks**: Java, Python, JavaScript, SQL, C, Swift · Spring Boot, React (Redux), Node.js, Django, Flask, Xcode
**Cloud & DevOps**: AWS (EC2, Lambda, S3, SQS), LangGraph, CrewAI · Git/GitHub, Postman
**Databases & Data Tools**: PostgreSQL, MongoDB, MySQL · NumPy, Pandas, Plotly · Jupyter Notebook
**Testing & Methodologies**: JUnit, unittest, Jest · Unit/Integration Testing, Code Coverage · Agile (Scrum & Kanban)

## TECHNICAL WORK EXPERIENCE

**Technical Operations Associate**                                                                          **June 2022 – October 2025**
*JETSET Pilates*
- Led a team to troubleshoot and resolve **technical issues, optimizing internal systems** and achieving a **100% resolution rate** while enhancing client onboarding.
- **Managed and enhanced** payment processing systems and business operations, **reducing processing time by 25%**.
- Applied data-driven **analysis** and **problem-solving** to system inefficiencies, implement scalable solutions, and increase overall system reliability.

**Full Stack Web Developer**                                                                                **July 2018 – November 2020**
*Style Link Miami / Hannah Bella Collections*
- **Engineered** responsive e-commerce **web applications, optimizing front-end** performance and user experience.
- **Developed** and maintained scalable **back-end systems** for inventory management, ensuring seamless functionality and reliability.
- Integrated **data-driven digital marketing** features, contributing to a **25% increase** in conversion rates.

## ACADEMIC PROJECTS

**Atmosphere Analyzer: Smart Data Visualization Tool |** Source Code  **Python | AWS (Lambda, S3) | React | Django**
- Solved environmental data delays by building a **serverless pipeline** with **AWS Lambda**, boosting efficiency by 35%
- Enabled **real-time insights** by integrating **AWS S3** with a **Django REST API** and **React** dashboard
- Used **unit testing** and **Agile** delivery to ensure accurate metric reporting and fast feature deployment

**Micro-Investment Education Platform |** Source Code    **React | Node.js | Express | MongoDB | Alpha Vantage API**
- Addressed user confusion around market trends by integrating real-time financial data via **Alpha Vantage** and **News APIs**
- Improved transaction handling and user ranking accuracy through optimized **Express/MongoDB** architecture
- Delivered responsive dashboards and fault-tolerant backend in **Agile** sprints to support investment education

**FraudWatch: Credit Card Fraud Detection System |** Source Code    **Python | Flask | Pandas | scikit-learn | Plotly**
- Tackled credit card fraud by training a **Random Forest model** with **92% accuracy** and reducing false positives
- Enabled **real-time fraud detection** through a **Flask API** and integrated **Plotly** visualizations
- Automated preprocessing and model validation to support scalable fraud classification pipelines

**Supply Chain Visualizer: Real-Time Logistics |** Source Code    **Java | Spring Boot | JavaScript | React | PostgreSQL**
- Solved shipment tracking delays by engineering **REST APIs** and dashboards to monitor inventory and logistics
- Improved supply chain visibility using **React** with **Chart.js/Leaflet**, backed by **Spring Boot** and **PostgreSQL**
- Ensured accuracy through **JUnit-tested endpoints** and deployed the system on **AWS EC2/S3** for scalability