Maria Rodriguez

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EDUCATION

Florida International University   **Miami, Florida**
*Bachelor of Arts in **Computer Science***   *Expected Graduation, August 2025*
Ce*rtificate in **Cybersecurity Intelligence & Information Policy***
- **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** e**fficiency** 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.

Supply Chain Visualizer: Real-Time Logistics | Source Code   **Java | Spring Boot | JavaScript | React | PostgreSQL**
- **Developed** a **full-stack web platform** to **map, monitor**, and **optimize** supply chain networks, improving operational visibility and reducing bottleneck detection time by **40%**, by designing secure **RESTful APIs** with **Spring Boot** and **PostgreSQL**, integrating **real-time dashboards** with Chart.js and Leaflet, and deploying on AWS EC2 and S3.

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, Xcode
Databases: PostgreSQL, MySQL, MongoDB