

# Maria Rodriguez

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**GitHub:** [/mariarodr1136](https://github.com/mariarodr1136) | **LinkedIn:** [/in/mariarodr](https://www.linkedin.com/in/mariarodr/) | **Portfolio:** [mariarodr1136.github.io/Portfolio/](https://mariarodr1136.github.io/Portfolio/)

## EDUCATION

### Florida International University

*Bachelor of Arts in Computer Science*

*Certificate in Cybersecurity Intelligence & Information Policy*

**Miami, Florida**

*Graduated - August 2025*

- **GPA:** 3.72 – Magna Cum Laude

- **Scholarships & Awards:** Magna Cum Laude, 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, React, Spring Boot, Node.js, Django, Flask, Swift

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

**Databases & Data Tools:** PostgreSQL, MongoDB, MySQL · NumPy, Pandas, OpenCV

**Testing & Methodologies:** JUnit, unittest · Unit/Integration Testing, Code Coverage · Agile (Scrum & Kanban)

## PROFESSIONAL EXPERIENCE

### Technical Operations Associate

**June 2022 – October 2025**

*JETSET Pilates*

- Automated **internal workflows** and system troubleshooting, achieving a **100% resolution rate** for technical escalations
- Optimized **payment processing integrations**, refactoring business logic to reduce transaction processing time by 25%
- Engineered **scalable solutions** for system inefficiencies through **root cause analysis**, increasing overall system reliability

### Full Stack Web Developer

**July 2018 – November 2020**

*Style Link Miami / Hannah Bella Collections*

- Architected **responsive e-commerce interfaces**, significantly optimizing **front-end load performance** and accessibility
- Developed **scalable back-end systems** for inventory management, ensuring data integrity and high system availability
- Integrated **data-driven marketing features**, leveraging analytics to drive a **25% increase in conversion rates**

## ENGINEERING 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%
- Engineered a **RESTful API** to bridge **AWS S3** and **React**, enabling asynchronous real-time data streaming
- Implemented **unit testing** and **Agile** methodologies to ensure high code coverage and fault-tolerant deployments

### Leaf-Medic: Embedded Computer Vision & ML System | [Source Code](#) Python | TensorFlow | PyQt5 | Raspberry Pi

- Achieved **90+ real-time plant disease detection** by deploying an optimized MobileNet model on Raspberry Pi
- Delivered confidence-ranked predictions and treatment guidance via **PyQt5 GUI** with image preprocessing
- Built a **modular, production-ready edge AI system** with ~145ms inference and scalability architecture

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

- Architected **real-time data pipelines** via Alpha Vantage and News APIs to deliver high-fidelity market insights and trends
- Optimized **MongoDB schemas** and Express logic to ensure **ACID-compliant transaction** handling and accurate rankings
- Developed a **fault-tolerant backend** and responsive UI, focusing on system reliability and performance

### Real-Time Supply Chain Visualizer | [Source Code](#) Java | Spring Boot | JavaScript | React | PostgreSQL | Docker

- Engineered **RESTful services** using **Spring Boot** to manage high-volume inventory data and logistics tracking
- Optimized **PostgreSQL schemas** to improve query performance for real-time data visualization via **Chart.js** and **Leaflet**
- Architected a scalable deployment on **AWS EC2**, utilizing **JUnit testing** to ensure 100% endpoint reliability