

Nageline Vallon-Rodriguez

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EDUCATION

Bachelor of Science, Computer Science

August 2021 - April 2025

Florida International University (FIU); Miami, Florida

WORK EXPERIENCE

City of Dania Beach | Dania, Florida

August 2024 - December 2024

IT Intern

- Facilitated API Integrations in Adobe Sign, streamlining document management
- Diagnosed network issues and supported IT infrastructure upgrades across departments
- Assisted with ERP optimization to improve internal workflows

PROJECTS

Butterfly Detection (INIT Build Team) | [View Github](#)

February 2025 - April 2025

- Designed and assembled hardware setup for Raspberry Pi 4 integration with Python libraries such as OpenCV
- Configured connections between Raspberry Pi 4 and cloud storage via Google Drive API for secure online data transfer
- Assisted with website building with React to showcase the Build Team project

Driver Drowsiness Detection System | [View Github](#)

January 2025 - April 2025

- Collected data and trained a MobileNetV2 model for real-time drowsiness detection
- Implemented the model into a mobile app using React Expo and Python
- Built front-end and back-end components for ML model integration to allow users to track drowsiness patterns via statistics
- Designed a login system for user authentication and data access via a mobile app through the NoSQL database service, Firebase

GeekText | [View Github](#)

August 2023 - December 2023

- Constructed a python based REST API service to support and manage an online bookstore
- Designed a codebase around applications architectural patterns and built a relational database structure in MySQL to support user, book, and shopping management
- Utilized the Flask framework to structure the API service

Reel Charts | [View Github](#)

June 2023-July 2023

- Launched a Python based web application alongside team members allowing a user to view movie analytics and specify movie search filters
- Utilized TMDb, Streamlit API and data analyzing tools such as NumPy and Pandas

SKILLS & INTERESTS

Languages: Python, Java, JavaScript, SQL

Frameworks: React.js, Flask, Firebase, Node.js

Tools: Git, GitHub, Agile/Scrum, HTML/CSS

ACTIVITIES/INVOLVEMENT

INIT (FIU Tech Organization); Miami, Florida

August 2021 - Present

- Currently a member of FIU's largest tech organization and actively participates in development courses and opportunities for students.
- INIT Build -- Focused on practical applications of software design in a team environment.

AWARDS

Senior Design Showcase Grand Prize for AI & Machine Learning

April 2025

Academic Achievement Award

March 2025