

# RICHEL OLIVER

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## EDUCATION

### Florida International University

Bachelor of Science in Computer Engineering

GPA: 3.35/4.00

Miami, FL

Aug. 2020 – Aug. 2023

#### Related Coursework:

- Programming I/II
- Data Structures
- Discrete Structures
- Operating Systems Principles
- Logic Design I
- Computer Design
- Systems Programming
- C/C++ Programming Embedded Systems

## EXPERIENCE

### INIT Build Web Development

Florida International University

Spring 2023

Miami, FL

- Worked on creating, designing, and publishing a personal webpage for FIU students.
- Collaborated with the Game Development team to build a GUI for their latest released game.
- Used React framework to design the GUI and implemented technologies like Git/GitHub, VSCode, HTML/CSS/JavaScript, Node.js, Express.js, and Tailwind CSS.

## PROJECTS

### Autonomous Pathfinding Rover | Python, Flask, Bootstrap, GPIO API, Raspberry Pi

August 2022

- Assembled the circuitry of a rover that uses acoustic sensors to navigate an environment autonomously.
- Implemented the rover using a Raspberry Pi, motor controller board, and python with GPIO APIs.
- Designed a web interface to control the rover remotely over the internet using Flask and Bootstrap.

### Portfolio Website | React, Tailwind CSS, GitHub, VSCode

February 2023

- Built a react portfolio website to showcase certain aspects about myself such as my skills, projects, and languages.
- Implemented a dark/light mode and a mobile optimization feature using the Tailwind's utility classes.
- Web interface uses certain React components such as NPM to run local host in the web browser.

### Airline Reservation System | C, GitHub, VSCode

September 2021

- Created a C language user interface to simulate the purchase of an airplane ticket.
- Program specializes in purchasing an online ticket for any current navigator by asking users valuable information regarding their flight destination.
- The system will automatically collect and output any given information to print their airplane ticket, which will then manually restart the whole process.

### Room Temperature Reader | C++, Losant, VSCode, Raspberry Pi, NodeMCU, DHT22

July 2021

- Used a NodeMCU ESP8266 development board, a DHT22 Temperature, and a Humidity sensor to track the changes in temperature.
- Utilized Losant's dashboard to have a real-time tracker of the room's temperature and humidity.
- Programed a Raspberry Pi to display the Losant dashboard on a small OLED screen.

## Technical Skills

**Languages:** Java, Python, C/C++, HTML/CSS/JavaScript, VHDL

**Frameworks:** React, Node.js, Express.js, Flask, Bootstrap, GPIO API

**Developer Tools:** Git/GitHub, Linux/Unix, VS Code, IntelliJ, CodeBlocks, Xilinx Vivado, Losant

**Hardware:** Raspberry Pi, Arduino, NodeMCU, DHT22, Beagle Bone, FPGA board