

RICHEL OLIVER

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EDUCATION

Florida International University

Miami, FL

Bachelor of Science in Computer Engineering

Aug. 2020 – Aug. 2023

GPA: 3.35/4.00

Related Coursework:

- Programming I/II
- Data Structures
- Discrete Structures
- Systems Programming
- Operating Systems Principles
- Programming Embedded Systems

EXPERIENCE

INIT Build Web Development

Spring 2023

Florida International University

Miami, FL

- Created a dynamic and user-friendly webpage for FIU students and collaborated with the Game Development team to design and develop a visually stunning GUI for their latest game release.
- Utilized the latest web development technologies including React, Git/GitHub, VSCode, HTML/CSS/JavaScript, Node.js, Express.js, and Tailwind CSS to create engaging and responsive web applications.
- Communicated effectively with team members, ensuring timely delivery of high-quality projects while meeting project requirements and deadlines.

PROJECTS

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

August 2022

- Developed an Autonomous Pathfinding Rover that utilizes acoustic sensors to navigate an environment with a high degree of accuracy and autonomy.
- Implemented the rover using a Raspberry Pi, motor controller board, and Python with GPIO APIs, leveraging expertise in embedded systems and programming.
- Designed a sleek and intuitive web interface using Flask and Bootstrap, enabling remote control of the rover from anywhere with an internet connection.

Portfolio Website | React, Tailwind CSS, GitHub

February 2023

- Created a stunning portfolio website using React, Tailwind CSS, and GitHub, highlighting my skills, projects, and programming languages with elegance and sophistication.
- Implemented advanced features such as dark/light mode and mobile optimization using Tailwind's utility classes, displaying expertise in front-end development.
- Designed a variety of React components and utilized NPM to run the website locally, ensuring maximum compatibility and user-friendliness.

INIT BUILD Gaming Hub | React, Node.js, Express.js, Tailwind CSS, Git/GitHub

April 2023

- Developed an engaging and interactive website using React, Node.js, Express.js, Tailwind CSS, and other modern web technologies.
- Implemented advanced features such as React-Scroll and React-Icons to customize the website and optimize user experience.
- Designed a variety of visually stunning components, showcasing my expertise in front-end development and design.

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, Code Blocks, Xilinx Vivado, Losant

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