# CARLOS BERMUDEZ

Miami, Florida● (786) 431-6093

cbermudezrivas@gmail.com ● www.linkedin.com/in/carlos-bermudez-rivas

**EDUCATION**

* University of Central Florida – B.S. in Computer Engineering

- Expected Graduation: 2022

- Cumulative GPA: 3.64

- Honors: Dean’s list, Tau Beta Pi Honor Society

* Relevant Course Work**:** Systems Programming in UNIX/Linux, Database Management, Embedded Systems, Signals and Systems

**WORK EXPERIENCE**

* **IBM Accelerate Program – Software Track** 06/2021 – Present

- 8-week professional development program which aimed to develop student foundational and technical on demand industry skills

- Worked on weekly projects with other students with a focus on learning full-stack development using current industry technologies under the supervision of an IBM Software Engineer

- Team leader in group projects: Organize meetings, develop and present overall structure of projects, and ensure team members are working diligently and efficiently to meet weekly deadlines

* **Learning Assistant for Ordinary Differential Equations class at FIU**  08/2020 – 12/2020

- Facilitated learning for students in class and outside of class

- Help professor with managing the class and working one on one with improving student performance

**PROJECTS**

* **Quiz Game App**

**-** Develop simple APIs using Express.js for routing to load all the quiz information on a server and allow a user to select the answers and send them to receive a score

**-** Tested the APIs using Postman

* **Task Manager App using React.js**

**-** Develop a fully functional task manager web application using React.js with Material UI components

**-** Tasked with programming logical aspect of the application with conditional rendering as well as implement Material UI components

* **Bluetooth Controlled Robot, FIU SparkDev Robotics Team**

- Hardware design lead, hardware assembling and programmer of Bluetooth/WIFI controlled robot using Arduino

- Tasked with programming the movable parts of the robot such as wheels, and robotic arm as well as programming gas, humidity and temperature sensors on the robot

- Integration of hardware and software system

* **IoT Temperature and Humidity sensor**

- Using an ESP8266 board that reports temperature/humidity in a room in real time through WIFI

- Board sends information and processes the information using Losant

* **Controllable battery powered RGB LEDs**

- Designed custom circuit board using Arduino and an infrared sensor to receive signal from infrared controller to change color, brightness, and state of LED’s

**SKILLS**

* Programming knowledge in C/C++, Java, and JavaScript
* React.js, Express.js, Node.js, PostgreSQL, Postman
* Database management and UNIX/Linux operating systems
* Embedded Systems programming
* Circuit analysis and use of Oscilloscope
* Speak fluent Spanish and English