

# Marc Diaz

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## EDUCATION

**University of Florida**, Herbert Wertheim College of Engineering  
**Bachelor of Science in Computer Information Science and Engineering**

**December 2021**  
GPA: 3.78

## WORK EXPERIENCE

### **Capital One**

**June 2020 – August 2020**

#### *Software Engineering Intern*

**Mclean, VA**

- Collaborated with the Enterprise & Products Platform team contributing to a web application that tokenizes and detokenizes sensitive data to adhere to PCI compliance under a Kanban workflow
- Utilized Angular for front end, Lua for back end, and MySQL for database management running on nginx and Docker
- Responsible for contributing to an internal Lua SDK for AWS, implementing authentication, creating API endpoints, and testing with Busted and Postman

### **Infotech, Inc.**

**May 2019 – August 2019**

#### *Software Developer Intern*

**Gainesville, FL**

- Worked with a team of three software developer interns to create a file service app interfacing with the existing Infotech Products
- Utilized Vue and Vuex for the front end, Node.js for the back end, AWS for the infrastructure, Cypress and Jest for testing
- Responsible for implementing backend, connecting microservices with existing API, and creating a responsive UI

### **U.F Computer Science Department**

**August 2019 - Present**

#### *Programming Fundamentals 1 Teaching Assistant*

**Gainesville, FL**

- Responsible for leading lab and discussion sessions, holding office hours, and grading projects and exams for 500+ students
- Aid students by answering questions and cover information related to projects and assignments related to Java
- Creating an automated grading software application for UF to reduce department and student costs by 90%

### **University of Florida**

**January 2019 - Present**

#### *Web Developer*

**Gainesville, FL**

- Communicate with clients from 20+ departments in UF for building AMP(Apache, MySQL, PHP) based web applications
- Implement user accessibility features and SEO to increase engagement with users and increase web performance
- Participate in weekly meetings with supervisors to discuss weekly progress on projects

## PROJECTS

### **Student Application Portal, Division of Student Affairs**

**August 2020 – Present**

- Redesigning student application portals for remote interviews through Zoom for 5 departments spanning 1000+ students
- Created an automated emailing feature notifying students of where they are in the interview process using PHP
- Managing weekly meetings with multiple directors to discuss feature requests and meet 3-5 week deadlines for deployment

### **Surfing Happy, Mozilla Open Lab**

**April 2020 – July 2020**

- Created a desktop application in Mozilla's Open Lab program that allows users to manage and prioritize their engagement with applications by using data visualizations and notifications
- Responsible for architecting state management with React and Typescript and implementing UI design with Microsoft's Fluent UI

### **Care++, ShellHacks**

**September 2019**

- Won best Hardware Hack award for Matrix Labs using their development board
- Created a kit monitoring in home weather conditions and fall detection to alert health care providers and care takers of conditions
- Developed the front-end for the dashboard using React and Material-UI, backend using Express, Node.js and Socket.io

## RESEARCH

### **Graphics Imaging and Light Measurement Laboratory**

**August 2018 - August 2019**

#### *Undergraduate Researcher*

**Gainesville, FL**

- Partnered with the department of Oncology at UF Health to discover new leads on imaging and classification tools
- Investigating deep learning techniques for detecting & classifying cells in slide scans using a variation of Single Shot Detection
- Incorporated Weka as the machine learning software and MATLAB for data analysis

## LEADERSHIP & INVOLVEMENT

### **UF General Relief in Prosthetics (G.R.I.P)**

**January 2018 - May 2020**

#### *Project Manager*

**Gainesville, FL**

- Oversaw multidisciplinary groups of 100+ students creating 3D-printed assistive devices for 40+ kids with upper limb differences
- Hold design meetings and ensure teams meet required deadlines and due dates for prosthetics

## SKILLS

- Languages: Java (Proficient), Python (Proficient), JavaScript (Proficient), C++, Lua, PHP, TypeScript, SQL
- Frameworks & Technologies: Vue, Vuex, React, Angular, Pandas, Cypress, Jest, nginx, Docker, AWS
- Related Coursework: Data Structures & Algorithms, Operating Systems, Data Science, Linear Algebra, Software Engineering