

# Tommy Carrascal

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## Education

**Florida International University**, Miami, FL  
Computer Science B.S

**Expected: December 2020**

**GPA: 3.40**

### • Relevant Coursework:

- Computational Geometry
- Data Structures
- Algorithm Techniques
- Database Management

## Experience

**GoDaddy**, Tempe, AZ

**Summer 2019**

*Software Engineer Intern*

- Full-stack development contributing to web-based tools including a CLI, plugins, and custom tree data structures
- Developed features for internal web frameworks, apps, and APIs with React and Express
- Created new developer tools in Node JS such as a webpack plugin for metrics and an abstract syntax tree generator to display JavaScript code from React forms
- Worked in agile setting and wrote unit and functional tests for new features using Mocha and Jest

**Florida International University**, Miami, FL

**Spring 2019-Present**

*Undergraduate Teaching Assistant*

- Teaching assistant for Intermediate Java (COP 3337)
- Grade student assignments and exams as well as provide feedback and corrections on their code

**Boatrax**, Miami, FL

**Summer 2018**

*Software Engineer Intern*

- One of the 3 main developers in Miami-based startup
- Developed the IoT platform with Node JS and Node Red. Created scripts to handle and monitor data flow
- Developed the UI and functionality of the main web application with React
- Designed the database structure with MySQL and wrote PHP API functions to query and manipulate the data
- Carried out scrum agile methodology with daily standups and weekly sprints

## Skills

- Java, JavaScript/TypeScript, Python
- React, React-Native, SASS, Adobe XD
- Node, Express, GraphQL, MySQL, MongoDB, Socket.IO
- Mocha, Git, Linux, Heroku, DigitalOcean

## Projects

**ShellHacks Software | Backend registration platform and admin dashboard**

**Spring-Fall 2019**

- Developed an API for a hackathon with user registration and login, file uploads, and emailing services
- Created a dashboard frontend to handle administrative tasks such as acceptances, statistics, and push notifications
- Built with Express, MongoDB, React, and deployed on DigitalOcean/Heroku

**GeoScheduler | Employee shift management System | Winner: 1st place, HatterHacks 2019**

**Spring 2019**

- Platform to automatically clock employees in and out based on their location to the company and shift schedule
- Created the API to register employees and used web sockets to send real-time location data from the mobile to web app
- Built with JavaScript, Express, React, React-Native, Socket.io

**League of Laughs | Web and mobile party game**

**Spring 2019**

- Created a multiplayer party game allowing players to create custom memes and compete against each other
- Consists of a mobile app, web app, and server. Used websockets to allow the different services to communicate
- Built with React/React-Native, Typescript, Express, and deployed to Heroku

## Leadership

**Upsilon Pi Epsilon | Executive-Board: Program Director**

**Fall 2018-Present**

- Leading the software development workshop program for a CS organization of over 600 members
- Manage a committee of student volunteers to carry out program events
- Workshops retain over 50 attendees on average each

**ShellHacks | Workshops lead | Lead Backend Developer**

**Summer 2018 - Present**

- Planning and coordinating the technical workshops for the largest hackathon in Florida
- Serving as the technical lead for the backend development team
- Assign tasks, review and merge pull requests, and implement core functionality for the platform

## Awards

- **Bright Futures Florida Academic Scholar** **August 2016 - Present**