

# RYAN SANDAN

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## EXPERIENCE

### **NASA NCAS Rover Competition, Software Engineer**

**March 2020**

- NASA's aerospace scholar program — an onsite work experience at Stennis Space Center, Mississippi.
- Developed, tested, and programmed mission-critical software for carrying out mission goals: specifically navigating through terrain, capturing objects, utilizing color sensors, and producing audio.
- Coordinated rover design and development with research/design engineers, making sure all interfaces were understood.

### **sssandan.github.io, Personal Website**

**Summer 2019 - Present**

- Taught myself HTML, CSS, PHP, and JavaScript to build and develop my website.
- Utilized proper Github practices like branching off the master, making pull requests, creating and updating readMe files, and using Github repositories.

### **NBA Trivia, iOS Application**

**November 2019**

- Learned XCode's IDE through Udemy (udemy.com) and taught myself Swift in order to create an NBA trivia application.
- Learned about object libraries, the interface builder, debugger, and adding Auto Layout constraints to the user interface.

### **maps, iOS Mobile Application**

**October 2019**

- Project Manager and Backend Developer at AT&T 5G Hackathon.
- Utilizing MapQuest's API, created an application (written in Python) given two addresses, outputs a list of directions, total distance, total duration, elevation, and longitude/latitude.
- Used Heroku to deploy, manage, and scale the app.
- Used Django's framework for its templates, libraries, and APIs which work together.

## SKILLS

**Languages (most familiar to least):** C++, Python, Java, HTML, CSS, Javascript, Swift, Bash, PHP

**Operating Systems:** Windows OS, Mac OS, Ubuntu, Linux

**IDE's:** Visual Studio, CS50, Jupyter Notebook, BlueJ, XCode, Mac Terminal

**Other:** Data Structures, git, Github, Kaggle, ZenHub, SQLite, Django, Heroku, Dr. Racket

## EDUCATION

**Associate of Science**, in Computer Science

Orange Coast College, CA

**Associate of Science Degree for Transfer**, in Mathematics

(06/2017 - 05/2020)

**Certificate of Specialization in C++**

**GPA:** 3.6

**Relevant Coursework:** C++ Programming 1 & 2, Python Programming 1, Java Programming 1, Data Structures, Computer Architecture, Software Engineering, Discrete Structures

## REFERENCES

**Gabriela Ernsberger**, Head of CS Dept. at Orange Coast College

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**Stacy Schmidt**, Regional Coordinator for NASA NCAS

email: [stacy.schmidt@nasa.gov](mailto:stacy.schmidt@nasa.gov)

**Austin Vigo**, Student Mentor at University of California, Irvine

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