Yash Gharat

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Education

Stanton College Preparatory Highschool   **Spring 2018**
International Baccalaureate (IB) Program Diploma
Science National Honor Society, Spanish National Honor Society, Mu Alpha Theta (Math National Honor Society)
Joe Berg Seminar Program for Math and Science

University of Central Florida   **Expected Graduation Spring 2022**
College of Computer Engineering and Computer Science
Bachelor of Science in Computer Engineering (BSCpE)

Relevant Experience

UAS Lab   **January 2020**
Research Assistant
- Project involving using proprietary AFSim software to incorporate MATLAB algorithms to simulate autonomous UAV formation for asset protection and enemy tracking.

STIR Lab
Researcher/Full Stack Developer   **August 2019 - 2020**
30 Days
- Developed Android app to aid in a PhD study that collected user data and integrated with an AWS backend using Cognito, S3, Lambda, and Gateway
- Developed companion admin Dashboard with Angular that directly interacted with the app users

Circle of Trust
- An Android app that runs risk detection on user SMS text messages to help parents and teens moderate risky behaviors while also grabbing useful information about the user.

SwampHacks   **January 2020**
CrowdFlow Member
- Won honorable mention at the University of Florida Hackathon by creating a full-stack solution for Carnival Cruise Lines that incorporated a Google's Tech Stack and a Python predictive model to help them track and predict crowd density on the ship while still accounting for the limited bandwidth available.

NLP Logix, Jacksonville, FL
Big Data Intern   **June 2017 - July 2017**
- Led a team of three people (myself and two others) to create a presentation that analyzed crime in Jacksonville and the possible causes.
- The Jacksonville Sheriff's office provided raw data regarding all sorts of crime separated by years, crime categories, place, etc. Using this data and SQL, Java, Tableau, and R Studio to break it down and analyze it.
- These findings were presented to the mayor's office and discussed some solutions for the crime in Jacksonville.

Science National Honor Society
Freelance Developer   **2017 - 2018**
- Assisted in solving the problem of tutors getting the required hours to maintain honor society membership by developing an Android app to connect tutors with tutees. This used Google authentication as the user base and employed Google Firebase to organize the users and the request submissions real-time.

Leadership

Stanton Summer Bridge Program
- Interviewed and hand-picked team of 20 volunteers for administration of program
- Coordinated over 300 students and 170 volunteers

IEEE SoutheastCon 2019, 2020 Hardware team
- Programming Lead and Arduino Lead
- Robot built using a combination of Arduino and RaspberryPi
- Used the Pi camera module for color detection

IEEE UCF Student Chapter
- Treasurer and Webmaster

Skills/ Strengths

- Java 8, C, Python, Visual Basic, Scala, SQL
- HTML5, CSS3, Bootstrap 4, XML, Linux
- AWS, Firebase, Angular 8, Node.Js
- Blender, GIMP, Android Studio, Material.io
- AFSim

Side Projects

- Healthy Convo Twitter Bot
- Projector hush box