Yash Gharat

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EDUCATION

University of Central Florida   **Expected Graduation Spring 2022**

College of Computer Engineering and Computer Science
Bachelor of Science in Computer Engineering (BSCpE)

Past Courses: Artificial Intelligence, Computer Vision, Operating Systems, Digital Systems, Software Engineering, Linear Circuits 2, Digital Design, Object-Oriented Programming
GPA: 3.76

EMPLOYMENT

UAS Lab   **October 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 - October 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.

NLP Logix
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.

ACTIVITIES

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.

Institute of Electronics and Electrical Engineers (IEEE)

Treasurer, Webmaster, Hardware Team   **2019 - 2020**

- Programming Lead on a competitive robot using a combination of Arduino and Raspberry Pi to perform a task involving color detection and ball retrieval.
- Managed a budget and purchases for the student organization leading up to IEEE's largest national conference so that 12 students could attend the fully paid conference trip.

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.

PROJECTS

Typical Nuke Bot

- Automated bot created with Node.js that emptied out a server, leaving only one channel and one person (the owner) with an ominous poem and no trace as to who ran the command.

Healthy Convo Twitter Bot

- Automated bot created with Node.js that pulled tweets from the current national trends at random and used Microsoft Azure's sentiment analysis to determine if those tweets were promoting healthy conversations and then retweet them with the score.

Projector Hush Box

- Created a hush box using Solidworks modelling to soften the noise of a dorm projector while maintaining proper airflow inside the box and maintain modularity for moving it.

SKILLS

LANGUAGES: Java, C, Javascript, Python, HTML/CSS, Scala, AFSIM Scripting, Dart, XML, Visual Basic, SQL

TOOLS AND FRAMEWORKS: Android Studio, Node.js, Angular, Flutter, Git, Bootstrap, AWS, Firebase, Linux, Material.io, GIMP