

Arwin Arun Swapna

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EDUCATION

University Of South Florida

Tampa, FL

Bachelor of Science in Computer Science

Expected: 2024

Key specialized courses: Program Design, Programming Concepts, Data Structures and Algorithms

Organization/ Clubs: SHPE, AICHE

EXPERIENCE

Dodge Industrial, Inc.

Greenville, SC

R&D Intern

Nov 2021 – May 2022

- Utilized Python to create test scripts to assess the BLE range of the sensors, create a range model using the data and calculated the reliability at fixed distances. Used this model to give feedback to R&D Engineers for product improvement
- Built an Interactive App using Python for data collection from Swagger API, making data accessible to future interns and engineers
- Recorded and labeled inventory according to BOM to PartsBox for automatic parts ordering and inventory tracking, created virtual builds to estimate the quantity of sensors built using existing inventory

Asea Brown Boveri (ABB)

Greenville, SC

R&D Intern

Aug 2021 – Nov 2021

- Teamed up with Engineers to develop an Android/iOS App tester using Dobot Robot, C# and WPF, made use of the App tester to create test cases to test the functionality of ABB Ability Smart Sensor App
- Setup an On-Premises gateway using Raspberry PI, Python for logging data from ABB Ability Smart Sensors
- Used Keysight BenchVue to obtain battery discharge data of the sensors and utilized the data to predict the longevity of the sensors

USF – Digital Humanities and Heritage Collections

Tampa, FL

Software Developer

Mar 2020 – Aug 2021

- Created a 3D modeling device using Raspberry Pi and multiple cameras to capture and render models
- Developed App using C#, which harvests metadata via Sketchfabs's API for the new/updated resources for USF 3D models collections
- Successfully transferred inbound data from Sketchfabs's API to SQL Database, and maintained periodically

INVOLVEMENT

Chem E Car – Electrical Technology Lead

Tampa, FL

American Institute of Chemical Engineers

Dec 2020 – May 2021

- Collaborated with other leads to participate in the annual Chem E Car competition.
- Worked as a team to create an electrical system to stop the car at the exact distance, revealed the day of competition

PROJECTS

USF Schedule Planner

May 2022 – Present

- Developing a WebApp that will solve the class scheduling problems faced by students at USF

Facial Recognition App

June 2022 - Present

- Develop a dynamic website using HTML, CSS, JS and React to detect faces in an image
- Used Clarifai Facial Recognition model to obtain face data

Personal Portfolio Website – v3

June 2022 – Present

- Design the third iteration of my portfolio website using HTML, SCSS, React, Tailwind CSS - hosted on Netlify
- Used LeetCode API to show Real-Time data of LeetCode questions solved categorized according to difficulty

USF Class Data

Feb 2022 – Present

- Working on scraping USF class data using Scrapy

SKILLS & INTERESTS

- Programming: **C, C++, C#, Python, HTML, CSS, SCSS, JavaScript, ReactJS, React Hooks, Tailwind CSS**
- Technologies/Environment: **MySQL, Git, GitHub, Agile-Jira, .NET, Django, Adobe Creative Suite**
- Awards: **USF Green & Gold Scholarship (2019 – 2023), USF Tampa Library Scholarship (2021)**