

Samsondeen Olawale Batula

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EDUCATION

Syracuse University

August 2019 - May 2023

Bachelor of Science in Computer Engineering

Awards: William Peil Award

Related Courses: Data Structures, Operating Systems, Embedded & Mobile Systems Programming, Computer Architecture, Android Programming

Organizations: National Society of Black Engineers, ColorStack, Chicago Scholars

Elmhurst University

August 2018 - June 2019

Bachelor of Arts in Computer Science | GPA: 3.5

Related Courses: Intro to Computer Science, Computer Science II

Organizations: Chicago Scholars, Black Student Union

SKILLS

Languages: Java, Python, C, C++, Javascript, HTML, CSS, ReactJs, Kotlin

Software Tools: SQL, Firebase, Git, GitHub, Arduino, Jupyter Notebook, XCode, Android Studio, Agile, REST API

PROJECTS

Cycle Sense ([Python](#), [C++](#), [GitHub](#)), Embedded Systems: Capstone Finalist

August 2022 – May 2023

- Designed and constructed an IoT device that can recognize and interpret bicyclists hand signals using OpenCV and advanced Image Processing techniques aimed to reduce roadside incidents with motor vehicles and cyclists
- Implemented the i2c and serial communication protocols between the Main PC, Arduino Uno Rev3, and Raspberry Pi 4B to seamlessly exchange data between each hardware component
- Engineered a synchronized state system on the Raspberry Pi ecosystem between the 3 output indicators to display visual and audio signals based on the specific data byte received

FindMyProfessor ([Java](#), [Firebase](#), [GitHub](#)), Android Mobile Application

September 2022 – January 2023

- Co-led on a team of four developers that created an android mobile application that serves as a tool for 500+ engineering students to streamline identifying and connecting with professors offering courses that align with their academic pursuits
- Developed the sign up, login and forget password recovery user authentication of clients, leveraging Firebase Authentication to ensure a secure and user-friendly entry point into the application
- Engineered an intent wrapper that prompts the email app on the android system to open thus reducing time to engage with professors listed on the application

Noise Detection Security System ([Python](#), [C++](#), [GitHub](#)), Embedded & Mobile Systems

March 2022 – June 2022

- Engineered an IoT device security system integrating the Rock Pi 4B, Servo Motor, Itsy Bitsy M0 Microcontroller, Webcam and an Adafruit MAX 4466 Microphone that detects a noise event and captures snapshots of the object creating the noise, which is then sent in real time to the owner of the IoT device
- Implemented the UART communication protocol to seamlessly exchange the noise detection data between the Itsy Bitsy M0 and Rock Pi 4B to enable the other components to perform their individually designated tasks

EXPERIENCE

Operations Manager, OraView

July 2023 - Present

- Leading a team of three individuals to create a seamless and organized pre-production atmosphere for recording for multiple brands by coordinating logistics, schedules and concept creation
- Increasing accounts reached on all social media platforms by 510%, Accounts engaging with the brand by 1,668% and total followers count by 140% by using content strategies based on analytical insights on each social media platform

Supervisor, Syracuse University Tennity Ice Pavilion

August 2019 – July 2023

- Increased customer service productivity by 15% by managing and training 8-10 new employees every academic year
- Operator of the ice re-surfacer machine used to clean and resurface the ice sheet used by hundreds of people daily