

Samsondeen Olawale Batula

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EDUCATION

Syracuse University, Bachelor of Science in Computer Engineering

Graduated May 2023

Related Courses: Data Structures, Object-Oriented Design, Operating Systems, Embedded & Mobile Systems Programming, Computer Architecture, Android Programming, Machine Learning, Software Specification & Design

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

SKILLS

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

Software Tools: SQL, Firebase, Git, GitHub, Unix/Linux, OpenGL, Arduino, VS Code, Jupyter Notebook, XCode, Android Studio, Agile Methodology, REST API

Spoken Languages: English, Yoruba

AWARDS

William Peil Award, Issued by Syracuse University Engineering and Computer Science School

April 2023

- Placed 1st out of 20 teams in Syracuse University's annual Open House competition by developing an IoT device that decreases roadside incidents with motor vehicles and cyclists by recognizing and interpreting cyclist hand signals to motor vehicle drivers

PROJECTS

Cycle Sense, Embedded Systems Project: Capstone Finalist

August 2022 – May 2023

Tech Stack: Python, C++, GitHub

- 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, Android Mobile Application

September 2022 – January 2023

Tech Stack: Java, Firebase, GitHub

- 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 user authentication of clients, leveraging Firebase Authentication to ensure a secure and user-friendly entry point into the application
- Implemented a forgot password recovery mechanism that allows clients to reset their credentials password by sending a reset link to the clients email
- 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, Embedded & Mobile Systems

March 2022 – June 2022

Tech Stack: Python/C++, GitHub

- Crafted and engineered an IoT device security system integrating the Rock Pi 4B, Servo PWM 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 send 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

LEADERSHIP EXPERIENCE

Operations Manager, OraVew**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
- Producing content for multiple brands by utilizing post-production skills such as video editing, sound design, visual effects and quality control
- Enhancing social media visibility by reaching broader audiences through implementation of SEO techniques

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