Samsondeen Olawale Batula

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[Portfolio](#) ▪ [LinkedIn](#) ▪ [Github](#)

EDUCATION

Bachelor of Science: Computer Engineering (CE), Syracuse University   **Graduated Spring 2023**

PROJECTS

Cycle Sense, (Python/C++, GitHub), Embedded Senior Design Project: 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 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 by 50%.

Meeting Maker, (Kotlin, Firebase, GitHub), Android Mobile Application   **September 2022 – January 2023**
- Co-led a project where we developed an android mobile application designed to streamline and optimize daily planning and meetings for students and professors
- Designed and implemented the functionality for meetings created by utilizing the Firebase Database to store vital meeting information
- Reduced interactions with the GPS application by 50% by implementing an intent wrapper that prompts the GPS navigation application on their device to open with pre-filled information for directions to their next meeting

LEADERSHIP EXPERIENCE

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
- Opened and closed the ice rink facility

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

SKILLS AND COURSEWORK

Languages & Tools: Java, Python, C, C++, Javascript, HTML, CSS, ReactJs, Kotlin, SQL, Google Firebase, Git/GitHub, Unix, Linux, OpenGL, Arduino, VS Code, Jupyter Notebook, XCode, Android Studio, Agile Methodology
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
Spoken Languages: English, Yoruba