

## **Samsondeen Olawale Batula**

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Portfolio: <https://samsondeenbatula-portfolio.vercel.app/>

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### **EDUCATION:**

Syracuse University, College of Engineering and Computer Science  
Bachelor of Science Computer Engineering

**Graduated May 2023**

### **SKILLS AND COURSEWORK:**

**Programming:** Java, Kotlin, C++, C, Python, ReactJS, CSS, HTML

**Applications & IDE:** Visual Studio Code, Android Studio, XCode, Jupyter Notebook, Eclipse, Firebase, MySQL

**Languages:** English (Native), Yoruba (Native), Turkish (Conversational), Spanish (Conversational)

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

### **PROJECTS:**

**Rubik's Cube Game, (C++), Computer Graphics**

**April 2023 – May 2023**

- Developed a 3x3 Rubik's Cube Simulator using OpenGL API.
- Designed and implemented a reactive start menu, 3D render for the Rubik's Cube, Fireworks Animation, Idle function animation, Lighting, 3D objects, Display Text, and Multiple View Ports.

**Cycle Sense, (Python/C++), Embedded Senior Design Project - Capstone Finalist**

**August 2022 – May 2023**

- Co-lead developer on a team of four that developed an IoT device system that can recognize and interpret cyclists hand signals using OpenCV, Image Processing, Arduino Uno Rev, and Raspberry Pi 4B.
- Developed the i2c and serial communication between the Main PC, Arduino Uno Rev3, and Raspberry Pi 4B.
- Designed a synchronized state system between the 3 indicators to react based on the hand signals received from the camera using Image Processing and OpenCV.

**FindMyProfessor, (Java), Android Mobile Application**

**September 2022 – December 2022**

- Co-lead developer on a team of four that built an Android mobile application that helps engineering students find professors of courses related to their academic material using the Android Camera API and Firebase.
- Developed the authentication of clients by using Firebase Database to store the credentials of clients.
- Implemented a forgot password authenticator that sends a Reset link to the clients email stored on the database.
- Designed an intent wrapper that prompts your email app on your android system to open so you are able to send emails to professors listed in the application.

**Meeting Maker, (Kotlin), - Android Mobile Application**

**September 2022 – December 2022**

- Co-Lead developer on a team of two that developed an Android mobile application designed to streamline and improve daily planning and meeting in any professional environment.
- Developed the authentication system by using Firebase Database to store the credentials of clients.
- Designed the functionality for created meetings on the app to be stored in the Firebase Database.
- Implemented an intent wrapper that prompts the user to open their Maps navigation application on their device for directions to their next meeting

### **AWARDS:**

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

**April 2023**

- Won 1st place out of 20 teams by working with 3 colleagues to develop an IoT device system that aims to increase safety for bikers on the road by recognizing and interpreting cyclist hand signals using Image Processing.
- Awarded this prestigious award for our project in the 2022-2023 academic year based on innovation and real life problem solving potential.

### **LEADERSHIP:**

**Supervisor, Syracuse University Tennity Ice Pavilion**

**August 2019 – Present**

- Manage Employees, Open/Close Ice Skating Rink, Operator of the Ice Re-Surfacer Machine (Zamboni) to clean and Resurface the ice used by hundreds of people daily.