Joseph Sackitey

(223)-388-9265 | Email | Linkedin | Github

Education

Gettysburg College Gettysburg, PA

Bachelor's Degree, Computer Science and Physics

Relevant Coursework: Data Structures, FullStack Web Development, Linear Algebra, Object-Oriented Programming, Calculus 1–3

Technical Skills

- **Languages & Frameworks**: Python, Java, HTML, CSS, JavaScript, Node.js, Express.js, React, C, Bootstrap, Git Bash
- **Developer Tools**: Android Studio, Visual Studio Code, Spyder, and Eclipse

Professional Experience

Sustainability intern May 2024 - August 2024

Gettysburg College *Gettysburg, PA*

- Improved and successfully updated information on the Campus Climate Change and Sustainability Website.
- Supported Facilities Services leadership in developing and implementing initiatives directly impacting Gettysburg College's Sustainability Tracking, Assessment and Rating System (STARS) assessment.
- Developed a communication plan for Facilities Services sustainability efforts on campus.

Engineering intern May 2022 - August 2022

CSIR *Accra, Ghana*

- Designed interactive web dashboards using Bootstrap, CSS, and JavaScript to visualize drone data and provide actionable insights for farmers.
- Gained hands-on experience with drones and sensors, including setup, configuration, maintenance, and troubleshooting.

PROJECTS & OUTSIDE EXPERIENCE

A Right Bionic Arm | *Java, Python, Kotlin, C, Android Studio*

- Designed and 3D printed a robotic prosthesis that can be remotely controlled via a mobile app through an integrated Bluetooth sensor.
- Engineered each finger for independent articulation, enabling a six-degree range of movements and functions such as gripping and holding objects.

Maze Runner | *Python,C,Arduino*

- Designed an autonomous mobile robot using ultrasonic sensors for obstacle detection and environmental mapping.
- Programmed an Arduino microcontroller to manage drive motors, enabling omnidirectional movement and successful autonomous mapping and maze-solving demonstrations.
- Developed and implemented navigation algorithms in C, processing sensor data for steering

Bliss | *C*

- Developed a comprehensive Clothing Mall Management System using C to streamline the management of shops and clothing items.
- Implemented features to display available shops with detailed information and support the addition of new shops and clothing items.
- Created an interactive menu for easy navigation, enhancing operational efficiency and providing a seamless user experience.

LEADERSHIP

Resident Assistant | *Hanson Hall* Aug 2024- Present

Gburg African Students Association | *Vice President* May 2024- Present

Gettysburg College Society of Physics Students | *Secretary* May 2024- Present