

Joseph Sackitey

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[Portfolio](#) | [Github](#)

EDUCATION

Gettysburg College

Bachelor's Degree, Computer Science and Physics

Gettysburg, PA

May, 2027

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.js, C, Bootstrap, SQL, PostgreSQL, APIs, Git Bash

PROFESSIONAL EXPERIENCE

Sustainability intern

Gettysburg College

May 2024 - August 2024

Gettysburg, PA

- Assisted in creating three new sustainability programs, contributing to a 10 percent improvement in Gettysburg College's STARS assessment rating.
- Designed and implemented a multi-channel communication strategy for Facilities Services, reaching 80 percent of students and faculty and boosting sustainability event attendance by 25 percent.

PROJECTS & OUTSIDE EXPERIENCE

[National Park Species Analyzer](#) | *Python*

- Developed and implemented a Python program to analyze biodiversity data from the National Park Service, efficiently processing over 1 million data points to identify key conservation metrics.
- Developed custom methods to analyze species density, common mammal families, and endangered species across parks, with rigorous testing to ensure accuracy, resulting in detailed conservation reports.

[Simon Game](#) | *HTML, CSS, Javascript, jQuery*

- Developed an interactive Simon game using JavaScript, jQuery, HTML, and CSS, incorporating dynamic gameplay and responsive animations to create an engaging user experience.
- Implemented game logic to track and compare user input against randomly generated patterns, including features like level progression, game restart, and visual/auditory feedback for success or failure.

[Portfolio Website](#) | *HTML, CSS, Javascript*

- Designed a responsive portfolio website from scratch using HTML, CSS, and JavaScript to showcase personal projects and skills.
- Implemented dynamic features and interactive elements using JavaScript, enhancing user engagement and improving site functionality.

[Bluetooth Controlled Robotic Arm](#) | *Java, Python, Kotlin, C, Android Studio, Arduino*

- Designed and 3D printed a robotic prosthesis that can be remotely controlled via an Android 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.

[AdBlocker Chrome Extension](#) | *Javascript, JSON*

- Developed a custom Chrome extension from scratch incorporating Manifest V3 for enhanced security and performance.
- Implemented advanced ad-blocking functionality utilizing the declarativeNetRequest API, creating and deploying a comprehensive set of URL filtering rules to block unwanted ads across multiple domains.

LEADERSHIP

[Resident Assistant](#) | *Hanson Hall, Gettysburg College*

Aug 2024- Present

- Mentor and support 49 residents, organizing numerous community-building events per semester to foster a positive living environment.
- Mediate conflicts and enforce residence policies, maintaining a 95 percent satisfaction rate among residents.