

# Joseph Sackitey

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Portfolio | <https://github.com/Jsackitey1>

## EDUCATION

### Gettysburg College

Bachelor of Science in Computer Science and Physics

Gettysburg, PA

Expected Graduation: May, 2027

**Relevant Coursework:** Data Structures, Full-Stack Web Development, Linear Algebra, Abstract Math, Principles of Databases, Intro to Computer Networks

## TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Java, TypeScript, C#, React.js, Kotlin, Material UI, Git, Mercurial, .NET, Node, Express

## PROFESSIONAL EXPERIENCE

### Associate Software Developer Intern

Google

May 2025 - August 2025

San Francisco, CA

- Migrating Google Play Games for PC desktop client from a legacy architecture in C++ to a WebView2-based implementation, written in C#, to improve maintainability, test coverage, and resource usage.

### Data For Good

JPMorgan Chase

April 2025 - April 2025

Plano, Texas

- Developed a predictive model for the National Education Equity Lab to identify high-impact courses for new high schools. Analyzed performance data and demographics to recommend course offerings, inform expansion strategies, and deliver actionable insights to advance educational equity.

### Northeast Big Data Innovation Hub

Member

Nov 2024 - Present

Remote

- Contributing to collaborative projects advancing data-driven innovation across academia, industry, and government within the Northeast region.

### HeadStarter AI

SWE Fellow

June 2024 - August 2024

Remote

- Built 2 AI apps and APIs using Next.js, OpenAI, Pinecone, and Stripe API that significantly streamlined the development process, and enhanced the overall user engagement.

## PROJECTS & OUTSIDE EXPERIENCE

[AgroMesh](#) | *Arduino, Python, FastAPI, React, Firebase, TensorFlow, ESP32, LoRaWAN*

- Currently building AgroMesh — a decentralized, AI-powered agricultural monitoring network using IoT sensors and AI models to deliver real-time insights that boost efficiency and resilience for smallholder farmers.

[Link-library](#) | *React.js, Firebase (Authentication, Firestore, Hosting)*

- Engineered a full-stack web resource management application using React.js and Firebase, featuring Google Sign-In, real-time database interactions, and protected routes.
- Implemented advanced features including categorization, tagging, and real-time search, enhancing user efficiency in organizing and accessing web resources.

[Bluetooth Controlled Robotic Arm](#) | *Python, Kotlin, Arduino*

- Engineered a 3D-printed Bluetooth-controlled robotic prosthesis, integrating with an Android app using Java and Kotlin for seamless remote control and sensory feedback via Bluetooth sensors.

## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

**President, Society of Physics Students**

Lead events, coordinate peer mentorship, and foster collaboration.

**Google Developer Student Club**

Organize workshops, lead projects, and build industry partnerships.

**Member, Association for Computing Machinery (ACM)**

Engage in events, workshops, and tech projects.

**Resident Assistant**

Foster a supportive living environment, mentor residents, and organize community programs.