

# Joseph Sackitey

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## EDUCATION

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### Gettysburg College

*B.S. Computer Science and Physics*

Gettysburg, PA

*Expected May 2027*

- **Relevant Coursework:** Data Structures, Full-Stack Web Development, Databases, Computer Networks
- **GPA:** 3.84/4.0

## TECHNICAL SKILLS

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Java, Python, TypeScript, C#/.NET, React, Kotlin, Git, Node.js, Express, MongoDB, Firebase, AWS

## PROFESSIONAL EXPERIENCE

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### Google

*Associate Software Developer Intern*

May 2025 – Aug 2025

*San Francisco, CA*

- Developed a prototype desktop client for Google Play Games on PC to improve performance and user experience on Windows
- Enhanced web infrastructure and cross-process communication between the client and the Progressive Web App, reducing memory use, CPU load, and launch time
- Streamlined build processes, improving maintainability and increasing automated test coverage

### JPMorgan Chase

*Data for Good Hackathon*

Apr 2025

*Plano, TX*

- Built a predictive model for the [National Education Equity Lab](#) to identify high-impact courses and support strategic expansion

## PROJECTS

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### [Nvidia-Agent](#) (TypeScript, Flask, LangChain, NVIDIA Llama, Gemini AI, WebView)

- Collaborated with a team to develop an AI-powered VS Code extension for automated ML code review, integrating NVIDIA Llama and Gemini AI via LangChain to analyze Jupyter notebooks and provide real-time recommendations for best practices, preprocessing, and model optimization
- Contributed to the full-stack architecture with a TypeScript extension frontend and Flask backend API, implementing intelligent notebook monitoring, visualization suggestions, and contextual code generation

### [AgroMesh](#) (React Native, Expo, Gemini AI, MongoDB, AWS)

- Lead developer of a decentralized, AI-powered mobile app for smallholder farmers to improve crop health and yield
- Built AI-driven disease detection, video analysis, JWT authentication, and backend integration with Gemini AI and MongoDB

### [Link-Library](#) (React.js, Firebase)

- Full-stack web app for organizing and sharing resources with Google Sign-In and a real-time Firestore backend
- Implemented tagging, categorization, and search, improving user efficiency and access speed by 20%

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

- Designed a 3D-printed robotic prosthesis with Bluetooth control via a custom Android app
- Integrated sensors for precise movement and programmed the microcontroller for real-time operation

## LEADERSHIP & ACTIVITIES

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**President, Society of Physics Students:** Coordinated 6+ events and launched a mentorship program with 17% growth in engagement

**Google Developer Student Club:** Led 3+ development projects and hosted 2 workshops

**CodePath Fellow:** Completed a 10-week SWE course and built 10+ React applications

**Resident Assistant (2 terms):** Mentored 24 residents and organized 5+ events with 95% satisfaction