Joseph Sackitey

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EDUCATION

Gettysburg College   Gettysburg, PA
B.S. Computer Science and Physics   *Expected May 2027*

- **Relevant Coursework:** Data Structures, Full-Stack Web Development, Databases (SQL (PostgreSQL/MySQL)), Computer Networks

TECHNICAL SKILLS

- **Languages & Frameworks**: Java, Python, TypeScript, C# .NET, React.js, Kotlin, Git, Node.js
- **Cloud & Databases**: AWS, MongoDB, Firebase, REST APIs, WebSockets, Google Cloud Platform
- **Developer Tools**: Git, Docker, LangChain, Redis, GitHub Actions, Jupyter, CI/CD Pipelines, Unit Testing

PROFESSIONAL EXPERIENCE

Google   May 2025 – Aug 2025
Associate Software Developer Intern   *San Francisco, CA*

- Developed a high-performance Windows desktop client for Google Play Games on PC, improving launch times by 10% and reducing installer size by $\sim$ 70 MB.
- Enhanced web infrastructure and cross-process communication between the desktop client and the Progressive Web App, reducing memory use, CPU load, and launch time
- Strengthened my skills in scalable system design and end-to-end product development.

JPMorganChase   Apr 2025
Data for Good Hackathon   *Plano, TX*

- Developed a data analytics pipeline that ingested, cleaned, and merged multi-sheet administrative and survey data (courses, classrooms, students, and schools) for the National Education Equity Lab's Data for Good initiative.
- Applied K-Means clustering to group schools by locale and engagement patterns, producing data-driven onboarding recommendations for new partner institutions.
- Used logistic regression to identify key predictors of student success and satisfaction, enabling targeted academic interventions and improved program design.

PROJECTS

ML Code Review Buddy (TypeScript, Flask, LangChain, NVIDIA Llama Nemotron, WebView)

- Co-developed AI-powered VS Code extension with 3-person team, integrating NVIDIA Llama via LangChain to analyze Jupyter notebooks and deliver real-time ML optimization recommendations
- Architected a TypeScript frontend and Flask backend API with real-time notebook monitoring, generating contextual code suggestions and visualization recommendations per analysis

AgroMesh (React Native, Expo, Gemini AI, MongoDB, AWS)

- Led development of an AI-powered mobile platform serving smallholder farmers, providing real-time crop health insights using Gemini AI-powered image analysis.
- Architected a microservices-driven backend on AWS + MongoDB, enabling scalable data ingestion and real-time API-driven analytics, and deployed CI/CD pipelines to automate integration testing and rollouts

HONORS & AWARDS

2025 Generation Google Scholar (Institute of International Education): Awarded $10,000 in recognition of my academic achievements, leadership, and commitment to diversity, equity, and inclusion.

2025 John Alfred Hamme Award (Gettysburg College): Recognized for my exceptional demonstration of leadership, loyalty, kindness, courtesy, and true democracy within Gettysburg College.