Joseph Sackitey

sackiteyjoseph44@gmail.com | linkedin.com/in/joseph-sackitey-44a8831b5 | jsackitey.dev | github.com/jsackitey1

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
- **GPA:** 3.84/4.0

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, 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 memory usage by almost 50%.
- Enhanced web infrastructure and cross-process communication between the desktop client and the Progressive Web App, reducing memory use, CPU load, and launch time
- Enabled comprehensive end-to-end testing for both backend and frontend, and allowed for more behavioral testing to monitor user interactions in the new client, a capability not supported by the old client.

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

- Developed an end-to-end 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)

- Collaborated with a team to develop an AI-powered VS Code extension for automated ML code review, integrating NVIDIA Llama 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)

- 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): $10,000 award in recognition of my substantial academic achievements, demonstration of leadership, and commitment to diversity, equity, and inclusion in my educational field and career.