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
- **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

LEADERSHIP & ACTIVITIES

President, Society of Physics Students: Coordinated 3+ events and launched a mentorship program with 17% growth in engagement.

Resident Assistant (2 terms): Mentored 50 residents and organized 5+ events.