

Joseph Sackitey

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EDUCATION

Gettysburg College

B.S. Computer Science and Physics

Gettysburg, PA

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

Associate Software Developer Intern

May 2025 – Aug 2025

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 ~ 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.

PROJECTS

RxConnect (TypeScript, Next.js, React, PostgreSQL, REST APIs, Redis, Docker)

- Architected a multi-tenant digital health platform connecting doctors, pharmacies, and patients using a Nx/Turborepo monorepo, Next.js 14 frontends, and a NestJS microservice backend, supporting real-time prescription routing and role-based access across 3 portals (Doctor, Pharmacy, Admin).
- Built a scalable, cloud-native backend with PostgreSQL + PostGIS for geospatial pharmacy discovery and BullMQ + Redis for asynchronous SMS workflows, enabling low-latency reads, high-volume writes, and reliable patient notifications, deployed on AWS (ECS Fargate, RDS, ElastiCache) with IaC and CI/CD automation.

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.