# Joseph Sackitey

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## EDUCATION

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

- **Relevant Coursework:** Algorithms, Data Structures, Operating Systems, Computer Networks, Databases: PostgreSQL and MySQL, Full-Stack Web Development
- **GPA:** 3.77

## TECHNICAL SKILLS

- **Languages**: Java, Python, TypeScript, C#, Kotlin, SQL
- **Frameworks & Libraries**: React.js, Next.js, Node.js, Flask, .NET, LangChain, REST APIs, WebSockets
- **Cloud & Infrastructure**: AWS: ECS, RDS, ElastiCache, GCP, Docker, CI/CD, Redis, MongoDB
- **Tools & Platforms**: Git, Nx/Turborepo, PostgreSQL, Jupyter, GitHub Actions, Unit Testing / TDD

## 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 approximately 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
- Implemented WebSocket-based IPC layer using C# and TypeScript, enabling seamless state synchronization between native desktop components and the PWA frontend.

## PROJECTS

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

- Architected a multi-tenant digital health platform connecting doctors, pharmacies, and patients, supporting real-time prescription routing and role-based access across 3 portals using a Nx monorepo, Next.js 14, and NestJS microservices.
- Built a scalable backend with PostgreSQL + PostGIS for geospatial pharmacy search and BullMQ and Redis for asynchronous SMS notifications, deployed on AWS (ECS Fargate, RDS, ElastiCache) with automated CI/CD pipelines.

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

- Co-developed AI-powered VS Code extension that analyzes Jupyter notebooks and delivers real-time ML optimization suggestions, reducing code review time by approximately 40%.
- Architected TypeScript frontend and Flask backend with LangChain-powered NVIDIA Llama integration for context-aware code recommendations.

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

- Led development of an AI-powered mobile platform providing real-time crop health insights via Gemini AI image analysis, with automated disease detection and treatment recommendations for smallholder farmers.
- 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.