Joseph-Bryan Asafo-Boakye

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EDUCATION

Marist University December 2025
Bachelor of Science in Information Technology | Minor: Computer Science | GPA: 3.7

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML, CSS, SQL
Frameworks & Tools: React, Node.js, PostgreSQL, Firebase, Vercel, OpenAI API, ESXi, Cisco Packet Tracer
Platforms & OS: Linux, Ubuntu

EXPERIENCE

Ecobank Ghana PLC - - - Accra, Ghana Oct 2026 – Present
Incoming National Service Personnel
- Role and responsibilities to be added after starting.

Ecobank Ghana PLC - - - Accra, Ghana Feb 2026 – May 2026
Information Technology Intern
- Developed a KPI tracking system to monitor and visualize departmental performance metrics across 10+ departments, supporting data-driven decision-making.
- Built a custom LLM-powered knowledge retrieval system using Python and SQL to automate internal access to complex banking documentation, reducing employee lookup time while maintaining strict data privacy controls.
- Led the redesign of the internal corporate portal in React, engineering a SQL backend to replace static components and enable real-time content management, deployed across Ecobank Ghana for company-wide resource accessibility.

Marist University - - - Poughkeepsie, NY May 2024 – September 2025
Help Desk Assistant
- Provided technical support to students, faculty, and staff, resolving a wide range of IT issues efficiently.
- Managed and maintained campus-wide network infrastructure, ensuring optimal performance and security through regular monitoring and preventive maintenance.

LEADERSHIP & PROJECTS

Jotter - - - School Records Platform (Live) Jun 2026 – Present
- Designed and deployed a full-stack school management platform in active use across 2 schools, serving ~150 students — replacing manual paper-based record keeping.
- Built modules for fee collection tracking, daily attendance, report card generation, and expense management, giving administrators a single dashboard for all school operations.
- Engineered a parent portal enabling real-time access to their child's attendance records, fees, and academic reports.
- Built with JavaScript, Firebase Firestore, and Node.js serverless functions on Vercel; designed for low-cost operation with no dedicated backend server.

NutritionU - - - Meal Planner for Students Aug 2025 – Dec 2025
- Built with React (frontend), Node.js (backend), and PostgreSQL (database), integrating the OpenAI API for personalized meal recommendations and dietary planning.
- Led cross-functional collaboration between frontend, backend, and AI feature development to deliver a cohesive, user-centered product.

IT Infrastructure Lab Project (Independent Study) Aug 2024 – Dec 2024
- Installed and configured a router, switch, and server, connecting 3+ devices with custom-built patch cables.
- Set up VLAN, trunk mode, and access mode for 50+ network ports, improving segmentation.
- Virtualized 5+ machines using RAID with ESXi or Ubuntu, enhancing server efficiency by 30%.
- Documented network architecture using Diagrams.net and provided system access instructions.

Gift Africa May 2021 – Present
- Raised over $100,000 and donated hundreds of pieces of football (soccer) gear from organizations such as the New York Red Bulls and Cedar Stars to underprivileged footballers in Ghana.