

BRIGHT OMARI OWUSU

owusuomaribright@gmail.com

linkedin.com/in/brightowusu

github.com/omariomari2

[Portfolio](#)

Education

Grambling State University

Expected: Spring 2027

Bachelor of Science in Computer Science/Cybersecurity

Grambling, LA

Relevant Coursework: Data Structures and Algorithms, Cybersecurity Defense Policy, Operating Systems, Embedded & Distributed Systems, Object-Oriented Programming, Computer Systems & Networks, Discrete Structures

Experience

NVIDIA

Summer 2025

Software Engineering Fellow

Remote

- Engaged in weekly sessions with NVIDIA engineers and recruiters, gaining exposure to the company's technology stack, work culture, and early-career pathways, which enhanced understanding of industry practices and improved technical skills.
- Developed technical skills and industry understanding through hands-on exercises and discussions during these sessions.

National Communications Authority (NCA) Ghana

May 2025 - July 2025

Project-Based Cloud Engineer

Remote

- Contributed to CI/CD pipeline setup for a tax collection platform serving Accra, using Google Cloud (Cloud Build, Artifact Registry) and GitHub Actions to streamline deployment workflows and improve system reliability.
- Worked on backend and database development for a job application portal for Ayawaso West, integrating AWS S3 for secure file storage, PostgreSQL for structured data management, and IAM for access control.

Citizens Bank

Jan 2024 – Mar 2024

Data Engineering Intern

Accra, Ghana

- Assisted the CISO with penetration testing and internal scans using Nmap and Burp Suite, identifying and mitigating five security vulnerabilities.
- Supported customer cybersecurity awareness by helping design and deliver interactive training sessions that demonstrated real-world phishing, malware, and unauthorized access attempts derived from the bank's systems.

Projects

Scalepoint ERP | Flask, PostgreSQL, JSON, Google Cloud

[View Project](#)

- Partnered with a team from the National Communications Authority (NCA) Ghana to design and deploy a commercially viable, customizable and scalable ERP system with role-based access control, built using Python, PostgreSQL, and JWT for authentication.
- Deployed on Google Cloud and currently used by Tysonn Electronics to manage operations across 5+ retail locations in Accra, Ghana, processing over 100 transactions monthly.
- Reduced manual inventory processing time by an estimated 80+ hours monthly across the 5 total retail locations.

FinVoice Connect AI | AWS (Lex, Connect, DynamoDb, Lambda), JavaScript

[View Project](#)

- Developed an AI-driven banking call center by creating, customizing and extending an Amazon Lex chatbot with custom intents and personalized replies for simulated financial services.
- Integrated AWS Lambda and DynamoDB to deliver real-time responses from simulated accounts, and configured Amazon Connect with IAM roles, DID and Toll-Free numbers for secure, scalable call handling.
- Reduced average customer query resolution time by 60% compared to simulated human-operated calls, demonstrating the efficiency of intelligent automation

MSUnit | Python, Django, SQLite, HTML, AWS S3

[View Project](#)

- Developed a real-time Django platform simulating collaborative workflows between remote clinicians and technicians.
- Enabled diagnosis and treatment simulations with secure, role-based dashboards for easier data assessment and work operations.
- Integrated multi-channel critical alerts via Websocket, demonstrating a potential 40% reduction in response time under simulated conditions.
- Constructed a secure and robust primary database using SQLite and AWS S3 to store scanned images and scalability, supporting 100+ simulated cases.

Pomodoro Play | JavaScript, JSON, Chrome APIs, TailwindCSS

[View Project](#)

- Created a Chrome extension that helps students manage work and break cycles using the Pomodoro Technique, with customizable timers and interactive features enabling users to stay focused and organized.
- Improved users' efficiency through smart reminders and notifications, with positive feedback from peers who use it to time their study sessions effectively

Technical Skills

Languages: Python, C++, JavaScript, TypeScript, Java, SQL (PostgreSQL, MySQL)

Tools/Frameworks: Linux, React, NodeJs, Django, Restful APIs, Git, Data Analysis, AWS (S3, Lambda, IAM, Dynamodb), GSAP

Certificates: AWS Cloud Foundations, AWS Cloud Practitioner Essentials, AWS Cloud Security Essentials, CISCO Networking Fundamentals; FullStack Open, Cybrand CyberSecurity Fundamentals

[Credly](#)

Affiliations / Campus Involvement

ColorStack, CodePath, Saylor Academy, NCA Ghana, GSU NLP Research Team, AWS AI/ML Scholar