

BRIGHT OMARI OWUSU

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[Portfolio](#)

Education

Grambling State University

Expected: Spring 2027

Bachelor of Science in Cybersecurity

Grambling, LA

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

Experience

NVIDIA

Summer 2025

Software Engineering Fellow

Remote

- Actively participated in weekly sessions with NVIDIA engineers and recruiters, gaining hands-on experience with NVIDIA's technology stack and deepening understanding of industry best practices.
- Developed technical skills and industry understanding through practical exercises and in-depth discussions focused on early-career pathways in software engineering.

National Communications Authority (NCA) Ghana

May 2025 – August 2025

Cloud Engineering Intern

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.
- Developed a robust database for a job application portal for Ayawaso West Municipality, integrating AWS S3 for secure file storage, PostgreSQL for structured data management, successfully processing over **100** applications since launch.
- Secured custom domain with Cloudflare, enabling HTTPS encryption and efficiently managing DNS records.

Citizens Bank

Jan 2024 – May 2024

Security Analyst Intern

Accra, Ghana

- Assisted the CISO with penetration testing and internal scans using Nmap and Burp Suite, successfully identifying and mitigating **5** security vulnerabilities.
- Supported customer cybersecurity awareness by helping design and deliver interactive training sessions to over **200** customers, demonstrating real-world phishing, malware, and unauthorized access attempts derived from the bank's systems.

Projects

Scalepoint ERP | Python, PostgreSQL, Paystack, Google Cloud, JWT Auth

[View Project](#)

- Engineered a multi-enterprise resource planning system using Python and PostgreSQL to manage inventory and track resources.
- Implemented role-based access control with JWT authentication, delivering distinct admin and employee system interfaces.
- Integrated Paystack API to enable seamless processing of over **500** monthly transactions across **5** retail locations.
- Deployed on Google Cloud Platform (GCP) to enable centralized access and improve operational efficiency by an estimated **25%**.

Call Connect Bot | AWS Console (Lex, Connect, DynamoDb, Lambda), Node.js, JavaScript

[View Project](#)

- Built a banking chatbot using Amazon Lex, with custom intents and dynamic responses tailored to financial service scenarios
- Developed a Node.js backend in AWS Lambda to handle intent fulfillment and serve real-time responses from DynamoDB-based simulated account data.
- Configured Amazon Connect with IAM roles, DID, and Toll-Free numbers to handle secure and scalable inbound call flows.
- Reduced average query resolution time by **60%** compared to simulated human agents, significantly improving customer support

PomoDoro Play | JavaScript, JSON, Chrome APIs, TailwindCSS, HTML

[View Project](#)

- Developed a Chrome extension using JavaScript (Manifest V3) with customizable Pomodoro timers and interactive UI components
- Integrated Chrome Alarms and Notifications APIs to deliver smart reminders and automate break/work cycles.
- Optimized productivity workflows, with users reporting a **30%+** increase in focused study sessions based on peer feedback.

WVS 1.01 | Python, Asyncio, Google Gemini, Webscrape

[View Project](#)

- Developed a high-performance, asynchronous website vulnerability scanner using Python and Asyncio modules, supporting both CLI and web interfaces.
- Integrated Gemini API to translate complex security findings into plain-language insights, making web audits accessible and understandable to non-technical users
- Reduced vulnerability triage time by approximately **40%** by translating scan results into clear, actionable remediation guidance.

Technical Skills

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

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

Certifications: AWS Cloud Foundations, AWS Cloud Practitioner Essentials, AWS Cloud Security Essentials (Issued by AWS)

CISCO Networking Fundamentals (Issued By Cisco)

FullStack Open(Issued by University of Helsinki)

IT and CyberSecurity Fundamentals (Issued by Cybrary)

[Credly](#)

Affiliations / Campus Involvement

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