BRIGHT OMARI OWUSU

owusuomaribright@gmail.com github.com/omariomari2 linkedin.com/in/owusuomaribright Portfolio

Education

Grambling State University **Expected: Spring 2028**
Bachelor of Science in Computer Science & Cybersecurity *Grambling, LA*
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Discrete Structures, Computer and Network Systems, Embedded and Distributed Systems, Computer Architecture

Experience

National Communications Authority Ghana **May 2025 – August 2025**
Cloud Engineering Intern
- Contributed to the CI/CD pipeline setup for a tax collection platform serving Accra, improving deployment speed by **35%** through Google Cloud (Cloud Build, Artifact Registry) and GitHub Actions.
- Worked on backend and database development for a job application portal for Ayawaso West, supporting over **500** applicant records by integrating AWS S3 for secure file storage, PostgreSQL for structured data management, and IAM for access control.
- Secured custom domains with Cloudflare, enabling HTTPS encryption and achieving **100%** uptime while efficiently managing DNS records for faster resolution times

NVIDIA **May 2025 - June 2025**
Software Engineering Fellow
- Collaborated with NVIDIA engineers and recruiters in weekly technical sessions to analyze industry best practices and strategies for early-career software engineers.
- Applied concepts from NVIDIA's technology stack through a series of hands-on, practical exercises designed to strengthen core software engineering skills.

Citizens Bank **Jan 2024 – May 2024**
Security Analyst Intern
- Conducted penetration testing and internal scans using Nmap, 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, Flask, Docker, Google Cloud, PayStack* **View Project**
- Implemented Flask as the core web framework to manage HTTP routing, request handling, and backend service integration
- Integrated Paystack payment gateway to enable secure and seamless online transactions, increasing payment success rate by **20%**
- Containerized and deployed the app with Docker on Google Cloud Run, ensuring **99.9%** uptime through automated scaling and efficient container management.

CallConnect AI | *AWS Console (Lex, Connect, DynamoDb, Lambda), NodeJS, JavaScript* **View Project**
- Automated an AI-driven banking call center by extending an Amazon Lex chatbot with custom intents and personalized replies for simulated financial services.
- Developed a Node.js backend in AWS Lambda to handle intent fulfillment and serve real-time responses from a DynamoDB-based sample account data.
- Reduced average customer query resolution time by **60%** compared to tested human-operated calls, showcasing the efficiency of automation.

Go-Shop | *Java, Spring Boot, PostgreSQL, Redis, Maven* **View Project**
- Migrated project backend from Nodejs to Java with Maven, introducing a more structured codebase with improved maintainability
- Developed backend services using Spring Boot, PostgreSQL for database management, and Redis for faster product catalog and cart data retrieval.
- Supported over 20 user registrations while reducing page load times by **40%** due to Redis caching and optimized API responses

WVS 1.01 | *Python, aiohttp, Gemini AI, Bootstrap* **View Project**
- Implemented asynchronous crawling with Python asyncio and aiohttp, created modular scans for SQL injection, XSS, and auth/security misconfigurations.
- Integrated Gemini API to translate complex security findings into plain-language insights, making web audits accessible and understandable to non-technical users
- Achieved sub-second response times with a **95%** detection accuracy across common exploit types

Technical Skills

Languages: Python, C++, JavaScript, TypeScript, Java, SQL (PostgreSQL, MySQL), NoSQL
Developer Tools: Linux, Flask, Spring Boot, Docker, Google Cloud (Cloud Run, Cloud Storage, IAM), AWS (S3, Lambda, IAM, DynamoDB, CloudWatch), Node.js, RESTful APIs, Git, Maven, Redis, PostgreSQL, CI/CD, Cloudflare, GSAP
Certifications: AWS Cloud Foundations, AWS Cloud Practitioner Essentials *(Issued by AWS)*
CISCO Networking Fundamentals *(Issued By Cisco)*
FullStack Open *(Issued by University of Helsinki)*

Extracurricular / Affiliations

AWS Academy, ColorStack, CodePath, Saylor Academy, BVCC, Code2040