BRIGHT OMARI OWUSU

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Education

Grambling State University — **Expected: Spring 2027**
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 **99.9%** uptime while efficiently managing DNS records for faster resolution times

Electronic Arts (EA) — **May 2025 - June 2025**
Software Engineer (Virtual Job Simulation)

- Proposed a new gameplay feature, detailing mechanics, player experience, and technical feasibility to simulate real-world design documentation.
- Engineered a reusable game object class in Python, applying object-oriented principles to model in-game entities and behaviors.
- Refactored inventory system logic to improve performance and scalability, simulating live debugging and production-level optimization.

AWS Academy — **Feb 2025 - Current 2025**
Member

- Completed AWS Cloud Foundations Certification, gaining hands-on experience with S3, IAM roles, and DynamoDB, while actively continuing to build expertise in scalable and efficient cloud resource management.
- Completed AWS Cloud Practitioner Essentials on AWS SkillBuilder, mastering EC2, CloudWatch, and other foundational AWS services to support scalable and secure cloud deployments.

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**

- Developed an AI-driven banking call center by extending an Amazon Lex chatbot with custom intents and personalized replies for simulated financial services.
- Integrated AWS Lambda and DynamoDB for real-time account responses 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, showcasing the efficiency of automation.

Go-Shop | *Java, Spring Boot, PostgreSQL, Redis, Maven* — **View Project**

- Migrated project backend from Node.js to Java with Maven, introducing a more structured codebase and improved long-term maintainability
- Developed and connected 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

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)*
IT and CyberSecurity Fundamentals *(Issued by Cybrary)* — Credly

Extracurricular / Affiliations

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