BRIGHT OMARI OWUSU

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Education

Grambling State University   **Expected: May 2028**
Bachelor of Science in Computer Science/Cybersecurity   *Grambling, LA*
Relevant Coursework: Data Structures and Algorithms, Cybersecurity Defense Policy, Operating Systems, Object-Oriented Programming, Computer Systems & Networks, Discrete Structures

Experience

NVIDIA Summer Bridge Program   **Summer 2025**
Participant   *Remote*
- Selected to participate in NVIDIA's invitation-only Summer Bridge Program, a six-week initiative focused on professional development, resume building, and technical deep-dives.
- Engaged in weekly sessions with NVIDIA engineers and recruiters, gaining exposure to the company's technology stack, work culture, and early-career pathways

PWC   **May 2025 - June 2025**
Extern   *Remote*
- Engaged in sessions with PwC professionals across Assurance, Tax, and Consulting, gaining firsthand exposure to the firm's culture, values, and client-driven approach.
- Participated in leadership workshops, networking events, and case-based learning to strengthen communication, analytical thinking, and business acumen.

Citizens Bank   **Jan 2024 – Mar 2024**
Data Security Intern   *Accra, Ghana*
- Worked under the CISO to strengthen the bank's security framework, identifying and mitigating 5 secondary vulnerabilities
- Conducted penetration testing and internal scans on web systems, reporting findings in compliance with internal audit policies.
- Helped organize and presented at hands-on training sessions to teach customers how to spot and respond to security threats, using real examples from the bank's systems.

Projects

Multi-Enterprise Resource System | *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 4 total retail locations.

Automated Call Center | *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

Remote Diagnosis Collaboration Platform | *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, Flask, Git, WordPress, PowerBI, AWS (S3, Lambda, IAM, Dynamodb)
Certificates: AWS Skill Builder: (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