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.

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 critical vulnerabilities
- Conducted penetration testing and internal scans on web systems, reporting findings in compliance with internal audit policies.
- Collaborated with IT team to develop incident response playbooks using data logs and internal security protocols, distributed across 3 departments in the bank system.

NHIS Ghana   **Aug 2023 – Nov 2023**
IT Support Volunteer   *Accra, Ghana*
- Logged and maintained a secure database of 500+ client records, improving retrieval speed through indexing and data optimization
- Assisted the software development team to design an internal software prototype for intake processing using Python, reducing manual logging by 40%.

Projects

Remote Diagnosis Collaboration Platform | *Python, Django, SQLite, HTML*   **GitHub**
- 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 PostgreSQL via Render for scalability, supporting 100+ simulated cases daily.

WVS 1.01 | *Python, AI-Powered Command-Line Tool, Render*   **GitHub**
- Built a fast, scalable website vulnerability scanner using Python's aiohttp, detecting issues like SQL injection, XSS, and missing headers.
- Enabled customizable scans via YAML-defined parameters such as scan depths, with both command-line and web-based interfaces for flexibility.
- Integrated Deepseek AI API to explain vulnerabilities in layman terms, helping both dev and non-dev users identify and address 230+ vulenrabilities.

Pomodoro Play | *JavaScript, JSON, Chrome APIs*   **GitHub**
- Engineered a Chrome extension that helps users manage work and break cycles using the Pomodoro Technique, with customizable timers and interactive features.
- Integrated productivity tools like tab tracking, video bookmarking, and a to-do list, 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.

Church Publicity Website | *React, Node.js, TailwindCSS*   **GitHub**
- Developed and deployed a responsive website for St. John the Evangelist Catholic Church in Accra, featuring announcements, events, resources, and TikTok integration.
- Enhanced digital presence and cross-device accessibility, leading to a 40% increase in community engagement.

Technical Skills

Languages: Python, C++, JavaScript, TypeScript, Java, SQL (PostgreSQL, MySQL)
Tools/Frameworks: Linux, React, Django, ThreeJS, GitHub, Firebase, WordPress, PowerBI, AWS (IAM, EC2, S3)
Certificates: AWS Cloud Foundations; Full-Stack Open; CISCO Networking Fundamentals   Credly

Leadership / Campus Involvement

Other Side Research Team   **Spring 2025 – Present**
Researcher   *Grambling State University*
- Currently leading a team of eight to research on remote employee monitoring solution with an aim of developing a tool that balances legal, well-being, and productivity needs for both employees and employers.
- Built a centralized web platform with Firebase authentication to streamline research collaboration and secure team access.

Grambling State ColorStack   **Spring 2025 – Present**
Member   *Grambling State University*
 * Participating in peer-led coding initiatives and industry networking events.