

# BRIGHT OMARI OWUSU

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## Education

### Grambling State University

*Bachelor of Science in Computer Science & Cybersecurity*

**Expected: Spring 2028**

*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

### Code2040

Sep 2025 - Present

*Software Engineering Fellow*

- Applied efficient **data structures and algorithms** implementations and **modular design principles** in **Python** through guided development sprints.
- Created **TypeScript/React** dashboard prototypes integrated with **Notion** to visualize user and system data.
- Applied **test-driven development** (TDD) and **code review practices** while implementing mock authentication to simulate secure user flows.

### Bloomberg

Sep 2025 – Oct 2025

*Software Accelerator - Client Systems*

- Prioritized simulated client support requests using the **Eisenhower Matrix**, modeling real-time **triage** and decision-making.
- Investigated Bloomberg **Terminal workflows**, identifying inefficiencies and implementing **Python scripts** to automate repetitive tasks and improve processing speed.
- Resolved client-facing workflow conflicts using structured **debugging** in **Jira** and Python, accelerating ticket resolution and improving simulated client satisfaction.

### National Communications Authority

May 2025 – August 2025

*Software Engineering Intern*

- Contributed to **CI/CD pipelines** using **Google Cloud Build**, **Artifact Registry**, and **GitHub Actions**, reducing deployment latency by **35%** and enabling automated rollbacks.
- Built AWS backend workflows, securing user files in **S3**, enforcing **IAM policies**, and monitoring pipelines via **CloudWatch** for 200+ records.
- Configured **Cloudflare DNS** with **TLS encryption**, achieving **100% uptime** and optimizing resolution speed through **caching** and record tuning.

### Electronic Arts

Jan 2024 – May 2024

*Technical Feature Developer - Simulation*

- Proposed a new feature for the EA Sports College Football and wrote a **Feature Proposal** describing it to other **stakeholders**.
- Created **C++ class definitions** from a **class diagram** and optimized the simulation with a **bugfix** and improved data structure.

## Projects

### Scalepoint ERP | Python, Flask, Docker, Google Cloud, PostgreSQL, PayStack

- Built **Flask** backend to manage **HTTP routing**, **API integration**, and various enterprise workflows across **6 retail locations**.
- Managed request lifecycle logic with middleware and decorators to support scalable, maintainable backend endpoints.
- Integrated **Paystack API** for **secure payments**, boosting success rate by **20%** via resilient error handling and input validation.
- Containerized and deployed with **Docker** and **Google Cloud Run**, enabling **CI/CD automation**, scaling, and high uptime.

### Go-Shop | Java, Spring Boot, PostgreSQL, Docker, React, TypeScript

- Developed **Java-based Spring Boot** endpoints with **JWT** sessions, cart state, and atomic checkout transactions.
- Improved cart interaction speed by 40% using modular **React/TypeScript** components with **real-time state sync**.
- Optimized grocery delivery routing for **50+** daily orders using a modified **Dijkstra algorithm** and **PostgreSQL** transactions.

### CallConnect AI | AWS Console (Lex, Connect, DynamoDb, Lambda), NodeJS, JavaScript

- Developed a **cloud native AI-driven** banking call center by extending a **Lex chatbot** with custom intents and dynamic replies to simulate secure banking workflows and user sessions.
- Built **serverless backend** in **Node.js** using **AWS Lambda**, handling real-time intent fulfillment and **data retrieval** from **DynamoDB**.
- Reduced average **customer query resolution** time by **60%** compared to tested human-operated calls.

## Technical Skills

**Languages:** C++, Java, Python, JavaScript, TypeScript, PostgreSQL, MySQL

**Frameworks & Libraries:** Spring Boot, React, Flask, Docker, Node.js, Three.js, Vue, Angular

**Certifications:** AWS Cloud Foundations, AWS Cloud Practitioner Essentials (Issued by AWS), CISCO Networking Fundamentals (Issued by Cisco), FullStack Open (Issued by University of Helsinki)

**Tools & Practices:** Notion, AWS, Google Cloud, Git, GitHub, Agile/Scrum, Test-Driven Development (TDD), Code Review, RESTful APIs, GraphQL, Version Control, Unit Testing, JWT Authentication

## Leadership / Extracurriculars

### GSU Cloud Tech Club

Apr 2025 – Present

*Vice President*

- Mentored peers through AWS Academy coursework, helping students complete certifications and strengthen skills in AWS services and serverless architecture.