CALEB OWUSU

carlwusu18@gmail.com | linkedin | github | carlsweb.dev

EDUCATION

Bachelor of Science in Computer Science — Georgia State University *Expected: May 2028*
GPA: 4.14
Relevant Coursework: Data Structures and Algorithms, System Level Programming, Calculus I and II

CERTIFICATIONS & HONORS

Certification: AWS Certified Cloud Practitioner
Honors: President's List (5x)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C
Cloud & Infrastructure: AWS (EC2, S3, Lambda, IAM, VPC), Serverless Architecture, Cloud Networking
Backend & APIs: Node.js, Express.js, REST APIs
Databases: PostgreSQL, Supabase, Firebase, SQL
AI & Generative AI: Google Gemini API, LLM Integration, Function Calling
Frontend: React.js, Next.js, Vite, Tailwind CSS
Developer Tools: Git, GitHub, Linux/Unix, VS Code

PROJECTS

Quest — 1st Place, Hacklanta '26 Quest Live Site
Stack: *React, Vite, Node.js, Gemini 2.0 Flash API, Google Maps Platform (Places, Geocoding, JS SDK), Vercel, Railway*

- Built and deployed a full-stack React and Node.js application on Vercel and Railway that turns a user's mood, available time, and GPS location into personalized, multi-stop real-world adventures.
- Designed a generative AI workflow integrating Gemini 2.0 Flash with Google Maps Places/Geocoding and live weather APIs to produce context-aware itineraries, adding fallback handling for unavailable locations and external API failures to keep the product reliable.
- Won 1st Place at Hacklanta 2026 with a live prototype featuring gamified progression and real-time, location-based recommendations.

ExclusiveCPT — E-Commerce Platform ExclusiveCPT Live Site
Stack: *TypeScript, React, Node.js, Express, Supabase, PostgreSQL, Paystack, JWT, bcrypt, Vercel, Railway*

- Built and deployed a full-stack e-commerce platform with RESTful APIs covering the entire customer journey: authentication, product browsing, checkout, and order processing, backed by a PostgreSQL database on Supabase.
- Secured user accounts with a dual-authentication system supporting Google OAuth 2.0 and email/password login, using JWT-based sessions and bcrypt password hashing.
- Integrated the Paystack payment gateway to automate real-time transaction initialization and verification, enabling secure, live processing of GHS-denominated customer purchases.

WORK EXPERIENCE

Frontend Engineer Intern — AO Holdings *Jul 2025 – Aug 2025*

- Presented the completed POS system MVP to the board, breaking down complex technical ideas into clear, simple explanations.
- Built 15+ reusable React components used across 6 application views, reducing duplicated UI code and accelerating feature development.
- Diagnosed and resolved 20+ frontend bugs and UI issues in a live production POS system, improving stability and usability while shipping fixes through agile sprint cycles.
- Authored documentation for 15+ UI components and product features, creating a centralized technical reference that streamlined knowledge transfer and onboarding for new contributors.