

CALEB OWUSU

Fullstack Engineer • Computer Science Student

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EDUCATION

B.S. Computer Science — Georgia State University

Aug 2024 – May 2028 (Expected)

GPA: 4.12 / 4.0 | **Relevant Coursework:** Data Structures and Algorithms, Calc I and II, System Level Programming

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C

Frontend: React.js, Next.js, Vite, Bootstrap, Tailwind CSS, Responsive Design, Component Architecture

Backend: Node.js, Express.js, REST APIs, JWT Auth, OAuth 2.0, bcrypt, Helmet.js

Databases: PostgreSQL, Supabase, Firebase

Cloud & DevOps: Vercel, Railway, Git, GitHub, CI/CD, Environment Management

Tools: VS Code, Figma, WordPress, Elementor

WORK EXPERIENCE

Frontend Engineer Intern — AO Holdings

Jul 2025 – Aug 2025

- ▶ Engineered modular, reusable React.js component library that improved team maintainability and accelerated feature development velocity across multiple application views.
 - ▶ Partook in the deployment and onboarding of a production POS system, gaining direct exposure to real-world scaling challenges, integration pipelines, and live environment debugging.
 - ▶ Authored comprehensive UI component and feature documentation, enabling smooth knowledge transfer and reducing onboarding time for new contributors.
 - ▶ Identified and resolved critical UI bugs during testing and production release cycles, ensuring a stable and user-friendly product launch.
 - ▶ Collaborated in daily agile sprints alongside designers and backend engineers, consistently delivering assigned features on or ahead of schedule.
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PROJECTS

Quest — AI-Generated Real-World Adventure Platform

[Quest Live Site](#)

Stack: React, Vite, Node.js, Google Gemini 2.0 Flash API, Google Maps Platform (Places, Geocoding, JS SDK), OpenWeatherMap API, Vercel, Railway

- ▶ Architected an AI-powered multi-agent system using Google Gemini 2.0 Flash that dynamically converts user mood, available time, and GPS location into structured, real-world adventure itineraries.
- ▶ Integrated Google Maps Places/Geocoding and live weather APIs to generate location-aware, multi-stop quests with real-time contextual data, resulting in a fully personalized user experience.
- ▶ Built a full stack React + Node.js application with serverless deployments on Vercel and Railway, implementing fallback logic, error boundaries, and a gamified quest progression system.
- ▶ Won the hackathon competition, demonstrating strong execution under time pressure and effective cross-functional collaboration.

Full-Stack E-Commerce Platform

[ExclusiveCPT Live Site](#)

Stack: TypeScript, React, Node.js, Express, Supabase, PostgreSQL, Paystack, JWT, bcrypt, Vercel, Railway

- ▶ Designed and built a complete e-commerce application from scratch with a TypeScript/React frontend (Vercel) and a Node.js/Express REST API backend (Railway), supporting the full purchase lifecycle.

- ▶ Implemented dual-authentication — email/password and Google OAuth 2.0 — secured with JWT tokens and bcrypt hashing, delivering a seamless and production-safe sign-in experience.
 - ▶ Integrated the Paystack payment gateway to handle real-time transaction initialization and verification for GHS-denominated purchases, enabling live payment processing.
 - ▶ Migrated data persistence from a file-based system to a Supabase PostgreSQL database, increasing reliability and enabling scalable cloud storage of accounts and purchase history.
 - ▶ Hardened the API with CORS policies, Helmet.js security headers, environment-based secrets management, and token-based authorization middleware across development and production environments.
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ACHIEVEMENTS & ACTIVITIES

- ▶ HackLanta 26 Winner — Built and won with Quest, an AI-powered real-world adventure platform, placing first at HackLanta 2026 and demonstrating full-stack delivery under competition constraints.
- ▶ President's List — Maintaining a 4.0 GPA while simultaneously delivering production software projects, the highest academic honor awarded by Georgia State University.