Ayo Ogunade

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EDUCATION

B.S. Honours in Computer Science — Expected 2029
The University of Saskatchewan — Saskatoon, SK
Notable Classes: Data Structures & Algorithms; Software Engineering; Operating Systems; Web Development

TECHNICAL SKILLS

Languages | Python, TypeScript/JavaScript, Java, SQL, C/C++, HTML, CSS
Frameworks | React, Next.js, React Native (Expo), Flask, Express.js, TailwindCSS
Databases & Tools | PostgreSQL, Supabase, pgvector, Prisma, MongoDB, MySQL, Docker, Git, Linux, REST APIs
AI/ML Tools | OpenAI API, Claude API, Google Gemini, LangChain, RAG, Prompt Engineering

WORK EXPERIENCE

Co-Founder & CEO — CalenDue — *September 2025 – Present*

- Grew a **1st-place CoHack 2025** hackathon project into a full-stack AI academic planning platform (Next.js, PostgreSQL, Supabase, Clerk, Prisma) and Expo/React Native app, **published on the App Store and Google Play with 200+ users**; co-leading a 4-person engineering team.
- Engineered a GPT-4o-mini syllabus extraction pipeline (PDF, DOCX, text, exam tables) with prompt-hash caching, cutting semester planning time by **~98% (4 hours → 5 minutes)**.
- Built Callie, a RAG chatbot using pgvector search with hybrid keyword re-ranking and per-course context isolation.
- Shipped 3 calendar integrations: Google Calendar (OAuth2), Apple Calendar (CalDAV) and Canvas LMS (iCal with bidirectional assignment auto-sync and three-tier Fuse.js deduplication).

Software Engineering Intern — GRANTED Technologies — *June – August 2025*

- Built and launched a full-stack blogging platform (Next.js, PostgreSQL, Prisma) for an AI grant-discovery startup.
- Cut editorial workflow time by **40%** via reusable components and a streamlined admin interface.
- Reduced failed user verifications by **30%** with NextAuth/Prisma auth and persistent sessions.
- Collaborated with a 3-person engineering team on schema design and API contracts, translating business requirements into tested data flows.

PROJECTS

AgriLink — Three-Sided Agricultural Marketplace | Next.js, React Native, Supabase, Paystack

- Built a marketplace connecting Nigerian farmers, buyers and transporters as a Next.js web app and Expo mobile app on one Supabase backend, **live on the web, App Store and Google Play with 80+ users**.
- Implemented Paystack checkout with held seller payouts released automatically on delivery confirmation, plus live stock tracking, bulk price tiers and listing expiry with renewal.
- Designed role-based auth for 5 user types with admin approval, and multi-channel notifications via email (Resend), SMS (Termii), push and an in-app inbox.

CSSS Email Automation Tool — Computer Science Student Society | Python, Windows COM APIs, AppleScript

- Developed a cross-platform Python tool cutting email campaign execution time by **92% (51 min → 4 min)** for the CSSS executive team.
- Automated Outlook headlessly via Windows COM APIs and AppleScript with no stored credentials.

AyoZon — E-Commerce Platform | React, Python/Flask, MongoDB

- Built a full-stack e-commerce platform with RESTful CRUD endpoints and MongoDB storage, load-tested with 1,000+ simulated users.

AWARDS

Achievers in Technology Scholarship (top 2% of 1,000+ applicants); President's Leadership Class, Univ. of Oklahoma (top 1%)