

# Stanley Okwii

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## Summary

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A senior Full-Stack Engineer with 6+ years building web and mobile products in Python and TypeScript on AWS and GCP. I build systems end-to-end, from AI assistants and payment platforms to large-scale data pipelines. I thrive as a technical lead or individual contributor, turning ambiguous requirements into production systems that serve real users.

## Skills

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**Programming:** Python, Javascript, Typescript, Dart, HTML, CSS

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, pgvector

**Libraries and Frameworks:** Django, FastAPI, Flask, Express, React, Next.js, Node.js, Flutter, Redux, Angular, ReactNative, GraphQL

**AI/ML:** RAG Pipelines, LLM Integration (Claude, Gemini), Vector Search, Embeddings, Hybrid Retrieval

**Tools and Platforms:** AWS (ECS, Bedrock, CloudFormation), GCP, Supabase, Docker, Git, GitHub Actions, Celery, Redis Streams, Sentry, New Relic

## Experience

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**Founding Engineer**, Access to Energy (Stealth) – London, UK Jan 2026 – present

AI research assistant for energy access in Africa — helps researchers, NGOs, and energy professionals get evidence-based answers with citations, drawn from a trusted library of sector reports and publications.

- Built an AI research assistant that answers questions with cited sources from a curated document library, improving answer accuracy by 35% over a basic search baseline.
- Designed and deployed the cloud infrastructure on AWS, automating environment setup and cutting provisioning time from days to under 15 minutes.
- Built a document processing pipeline that handles hundreds of files at once, making uploaded content searchable in minutes instead of hours.
- Designed a multi-tenant platform with secure data isolation and per-organisation usage tracking, enabling onboarding of multiple research organisations on a single shared system.

**Senior Full-Stack Software Engineer (Full-time)**, Harver – New York, USA Mar 2023 – May 2025

Left Harver in May 2025 to focus full-time on completing my MSc at Birkbeck, University of London.

- Owned end-to-end architecture and delivery of 3+ client-facing software projects across a Python backend and React frontend, making key technical decisions on security, performance, and long-term maintainability.
- Drove project planning across engineering, product, and design — scoping requirements, managing technical trade-offs, and delivering projects on schedule.
- Authored technical documentation of core system workflows, reducing onboarding time for new engineers by 15% and establishing shared knowledge across the team.
- Shaped engineering hiring by leading 15+ technical interviews, assessing candidates on system design, code quality, and problem-solving.

**Full-Stack Software Engineer (Full-time)**, Harver – New York, USA

Sept 2019 – Mar 2023

- Improved application observability by implementing structured logging and monitoring, cutting debugging time by 25%.
- Built analytics dashboards providing clients with actionable insights into talent growth and mobility metrics across their organisations.
- Identified and resolved performance bottlenecks through systematic profiling, achieving a 15% improvement in API response latency.
- Automated the release process by building CI/CD pipelines, resulting in 20% faster deployment of frontend applications.

## Projects

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### Hoppers (Event Ticketing Platform) – Remote

Oct 2025 – present

Full-Stack Software Engineer (Contract)

- Built a payment system integrating multiple providers with commission tracking, automated settlements, and booking-fee snapshots for accurate revenue reconciliation.
- Implemented QR-code ticketing with secure generation, server-side validation, and per-user purchase limits with safeguards to prevent double-bookings under heavy traffic.
- Shipped a team management system with invitations, permission controls, and organiser metrics dashboards — delivering major features across backend, admin, and mobile as primary contributor.

### CareerFoundry (Online Coding Bootcamp) – Berlin, Germany

Mar 2023 – Jan 2026

Full-Stack Web Development Mentor (Freelance)

- Provided technical mentorship and project feedback to 23+ students in the Full-Stack Web Development program at CareerFoundry.
- Maintained a consistent 5/5 student rating for quality of feedback, supportiveness, and responsiveness.

### Utidash - New Tab (Productivity Chrome Extension) – Berlin, Germany

Sept 2020 – Nov 2020

Full-Stack Software Engineer (Contract)

- Implemented new features for a productivity Chrome extension serving over 6,000 users, which led to a 12% increase in daily active usage.

## Education

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**MSc Birkbeck, University of London**, Advanced Computing – London, UK

Oct 2024 – Sept 2025

- Graduated with Merit

**BSc Makerere University**, Software Engineering – Kampala, Uganda

Aug 2014 – Sept 2018

- Graduated with 2:1 (Upper Second Class Honours)