

# KOBBY OWEN

Senior Full Stack Engineer

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## SUMMARY

Senior Full Stack Engineer with 6+ years building fintech, enterprise, and AI-powered platforms in Python, TypeScript, and C++, spanning backend services, frontend, LLM-powered systems, and cloud infrastructure.

## EXPERIENCE

### ANDELA

Contract engagements

#### EMERGENCE AI

Senior Backend Engineer – AI Services & Platforms

NEW YORK, USA

Oct 2025 – Present

- Selected as one of four engineers from Andela's 150K+ technologist network for Emergence AI's agentic AI initiative (announcement).
- Built AI-driven agents to process and analyze 100K+ semiconductor data points, surfacing metrics that reduced analysis time from days to hours.
- Owned backend APIs, authentication, and platform services while contributing to frontend experiences and product delivery.
- Improved internal engineering workflows through automation, cutting manual effort by 40% and turnaround time by 45%.
- Resolved critical production issues across AI infrastructure, improving reliability, security, and platform stability.
- Implemented observability, metrics, and monitoring to strengthen operational insight and service health.

#### NEBULA

Senior Full Stack Engineer

NEW YORK, USA

May 2023 – Sep 2024

- Architected scalable backend services and optimised database performance across core products.
- Introduced Zustand state management, reducing frontend complexity by 30%.
- Implemented CI/CD pipelines that improved engineering quality and deployment confidence.
- Delivered AI-powered recruitment capabilities that enhanced candidate-job matching.

### TURING

Senior LLM Engineer

CALIFORNIA, USA

Sep 2024 – Sep 2025

- Engineered scalable Python pipelines to support large-scale LLM evaluation workflows for client engagements.
- Built structured evaluation frameworks using JSON schemas to validate model quality, consistency, and reliability.
- Developed benchmarking systems to measure model accuracy, latency, and robustness.
- Created preprocessing pipelines using BeautifulSoup, regular expressions, and structured datasets.

### AKADENIA

Full Stack Engineer

IDAHO, USA

Feb 2022 – May 2023

- Built and optimised full-stack applications for multiple client engagements.
- Developed Shopify administration tooling that increased support productivity by 30%.
- Reduced AWS costs by 20% through cloud optimisation and serverless adoption.

- Led technical hiring by designing and conducting engineering interviews, and mentored developers through code review and pairing.

**NSANO FINTECH**  
Full Stack Engineer

ACCRA, GHANA  
Mar 2020 – Feb 2022

- Built a fraud detection platform that prevented over \$120K in fraudulent transactions.
- Developed reconciliation systems for payment validation and reporting.
- Implemented USSD banking solutions supporting fintech services across Africa.
- Mentored interns through onboarding and delivery, and contributed to AI-driven financial analytics initiatives.

**SKILLS**

|                            |                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Languages:</b>          | Python (Expert, 6+ yrs), TypeScript/JavaScript (Expert, 5+ yrs), C++ (Advanced, 6+ yrs)                                               |
| <b>Frontend:</b>           | React (Expert, 5+ yrs), Next.js (Expert), React Native, Redux, Zustand, HTML, CSS                                                     |
| <b>Backend:</b>            | FastAPI (Expert), Flask (Expert), Django (Advanced), Node.js/Express (Advanced)                                                       |
| <b>AI &amp; Data:</b>      | LLMs (Advanced, 2+ yrs), MCP, PydanticAI, Prompt Engineering, JSON Schema, NumPy, Pandas, BeautifulSoup                               |
| <b>Cloud &amp; DevOps:</b> | AWS (Advanced, certified), Azure (Intermediate), Docker (Advanced), Redis, Celery, Nginx, GitHub Actions                              |
| <b>Databases:</b>          | PostgreSQL (Expert), MySQL (Advanced), MongoDB (Intermediate)                                                                         |
| <b>Leadership:</b>         | Technical leadership, mentorship, code review, technical interviewing, cross-functional collaboration, communication, problem-solving |

**PROJECTS**

- Ask Kobby — Built a retrieval-grounded personal AI assistant that answers as me, routing each turn by intent, serving real files, and matching pasted job descriptions against my experience.
- Akorkor — Led end-to-end development of an e-commerce platform for online grocery shopping, covering storefront, checkout, and backend services.
- json2obj (Open Source) — Authored and published a PyPI library that converts JSON into Python objects accessible through dot notation.
- MegaMimes (Open Source) — Authored a lightweight C library that detects MIME types from file contents and extensions with no external dependencies.
- data-server (Open Source) — Authored a developer tool that generates mock REST APIs from JSON and CSV files for rapid prototyping and testing.
- ELD — Built a workflow management platform for electronic logging, covering trip logging, compliance records, and reporting.

**CERTIFICATIONS**

AWS Certified Cloud Practitioner — Amazon Web Services | Nov 2025 – Nov 2028

**EDUCATION**

University of Ghana — BSc Finance (2016 – 2020)