

MAYOWA BELLO

Senior Full-Stack AI/ML Engineer

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PROFESSIONAL SUMMARY

Senior Full-Stack AI/ML Engineer with **9+ years of software engineering experience** spanning web applications, mobile products, backend services, and applied machine learning. Combines production SaaS delivery with hands-on work in document retrieval for LLM applications, natural language processing, computer vision, and reinforcement learning. Technical breadth across React, Next.js, React Native, Python, Django, Flask, and Node.js, with knowledge of the AWS ecosystem and infrastructure as code using CloudFormation and Terraform. Experienced in technical leadership and end-to-end delivery across distributed teams.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, HTML, CSS

Frontend and mobile: React, Next.js, React Native, Redux, React Hooks

Backend and APIs: Django, Django REST Framework, Flask, FastAPI, Node.js, Express, REST APIs, WebSockets, Django Channels, Socket.IO

AI and machine learning: PyTorch, TensorFlow, scikit-learn, Transformers, LLMs, Model Context Protocol (MCP), retrieval-augmented generation foundations, embeddings, NLP, recommender systems, computer vision, depth estimation, reinforcement learning

Data and processing: PostgreSQL, pgvector, MongoDB, Redis, Celery, NumPy, pandas

Cloud and infrastructure: AWS, AWS CloudFormation, Terraform, Docker, DigitalOcean

Engineering: Software architecture, API design, model training and evaluation, application deployment, performance optimization, Agile delivery

PROFESSIONAL EXPERIENCE

Software Engineer | Swept Janitorial Software

Canada, Remote | February 2022 to Present

- **Deliver** web and mobile features for a commercial cleaning workforce-management platform using React, TypeScript, and React Native.
- **Engineer** AI integrations using Model Context Protocol (MCP) to connect applications with tools and services.
- **Deploy** application services on AWS, owning delivery from implementation through cloud deployment.
- **Strengthen** application reliability and performance by diagnosing defects and resolving issues across a continuously operating SaaS product.

Senior Software Engineer | 10 Hour Labs

Canada, Remote | September 2021 to Present

- **Architect** scalable SaaS frontend features using React and TypeScript, translating product requirements into maintainable application code.
- **Orchestrate** feature delivery with product managers, designers, and backend engineers across a distributed Agile team.
- **Optimize** complex application state using Redux and React Hooks to support responsive, reliable user interactions.

PROFESSIONAL EXPERIENCE | CONTINUED

Full-Stack Engineer | GitStart (YC S19)

San Francisco, United States, Remote | October 2020 to September 2021

- **Engineered** client-facing applications across React frontends and Node.js and Python backend services.
- **Integrated** frontend interfaces with backend components to deliver complete product workflows.
- **Executed** work across the development lifecycle, from product planning and design through implementation, deployment, and defect resolution.

Lead Software Engineer | Touchcore Technology Ltd.

Lagos, Nigeria | October 2019 to June 2020

- **Led** Python engineering delivery, coordinating requirements, API design, implementation, and deployment.
- **Developed** REST API services supporting travel promotions and financial workflows across loans, savings, and investments.
- **Connected** frontend applications to Django and Node.js APIs, enabling complete customer-facing workflows.
- **Standardized** requirements and endpoint documentation to guide implementation and frontend integration.

Backend Developer | Anyskillz Inc. Ltd.

Suffolk, United Kingdom, Remote | February 2019 to October 2019

- **Built** core freelance marketplace services covering payments, social features, and job categorization.
- **Implemented** a machine learning recommender system to support marketplace recommendations.
- **Enabled** real-time platform interactions through messaging, notifications, and live updates.
- **Documented** backend APIs to support frontend integration and ongoing feature development.

Freelance Full-Stack Developer | Fiverr

Remote | December 2017 to 2021

- **Shipped** client web applications and feature enhancements using Python, Node.js, React, JavaScript, HTML, and CSS.
- **Launched** an end-to-end event ticketing platform spanning frontend interfaces and backend functionality.
- **Translated** client requirements into working application features across the full stack.

SELECTED AI/ML ENGINEERING WORK

Independent projects

- **Constructed** a document ingestion and retrieval pipeline for LLM applications using FastAPI, Celery, PostgreSQL, and pgvector, incorporating document parsing, embeddings, source attribution, and review queues.
- **Designed** a Transformer text classifier from scratch in PyTorch, implementing multi-head self-attention, positional encoding, encoder layers, and training and validation workflows.
- **Evaluated** three machine learning approaches for resume classification and implemented an English-to-Spanish neural translation model using sequence-to-sequence learning and Bahdanau attention.
- **Applied** reinforcement learning to autonomous route following in CARLA and humanoid locomotion across the Unitree G1's 23 actuated joints, developing control policies and refining reward functions.
- **Investigated** monocular depth estimation by inspecting intermediate feature maps and reconstruction stages to evaluate spatial representations and debug model behavior.

EDUCATION

Bachelor of Engineering, Civil Engineering

University of Ilorin | November 2014 to July 2019

Second Class Upper Honors