

PRINCE MENSAH

Accra ◇ Greater Accra ◇ Ghana
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EDUCATION

African Master's in Machine Intelligence (AMMI) MSc in Machine Learning	Joal-Centre, Senegal Nov 2023 – Aug 2025
African Institute for Mathematical Sciences (AIMS) MSc in Mathematical Sciences	Accra, Ghana Nov 2022 – Aug 2023
Kwame Nkrumah University of Science and Technology (KNUST) BSc Mathematics	Kumasi, Ghana Oct 2017 – Nov 2021

EXPERIENCE

Dodo Technologies Artificial Intelligence Engineer	Jan 2026 – Present Accra, Ghana
- Building agent workflows into products, and designing feedback loops that enable continuous quality improvement - Collaborating with team in implementing agentic workflows and also contributing to ML model optimization	
RG Partners Artificial Intelligence Engineer	Sep 2025 – Jan 2026 Kigali, Rwanda
- Helped build sorataxai, a full-stack tax research system that combines authoritative regulatory sources, live web search, and private document processing retrieval to produce cited, jurisdiction-aware answers. - Implemented multilingual support with real-time chat functionality and voice interaction capabilities	
SevenX Artificial Intelligence Engineer	Jul 2025 – Sep 2025 Kigali, Rwanda
- Helped fine-tune LLMs for healthcare applications, including medical text analysis and patient data processing systems. - Implemented model versioning and monitoring ensuring reliability and accuracy in clinical decisions.	
InstaDeep AI Research Engineer Intern	Dec 2024 – April 2025 Kigali, Rwanda
- Collaborated with team on remote sensing project focused on vegetation parameter estimation from satellite imagery - We developed the transformer-VAE architecture for ecosystem monitoring for early detection of natural disaster	
ALX Africa Software Engineer Intern	Sep 2022 – Dec 2022 Accra, Ghana
- Built RESTful APIs for real-time data synchronization and integrated third-party services including payment gateways - Implemented automated testing suites and CI/CD pipelines using GitHub Actions, and Docker for deployment.	
Google Data Analytics Intern	Feb 2020 – Aug 2020 Accra, Ghana
- Analyzed healthcare datasets to identify patterns in patient outcomes and treatment effectiveness. - Developed healthcare analytics dashboards using Tableau to visualize patient demographics and clinical results.	

PROJECTS

Omni

March 2026 – Present (*actively under development*)

Agentic AI Application

dodoomni.com

- Building a multi-tenant product intelligence platform for real-time behavioral analytics, funnels, goals, anomaly detection, feature flags, link analytics, uptime monitoring, and AI-assisted decision support
- Developed streaming, tool-using AI agents with the Vercel AI SDK and MCP, enabling tenant-scoped analytics and financial queries across the web dashboard with usage metering and evaluation.
- Worked on SSO/OAuth, two-factor authentication, RBAC, NGINX configurations, and gated GitHub Actions

Sorataxai

September 2025 – January 2026

Full-Stack AI Application

sorataxai.com

- Built and maintained sorataxai.com, a tax research products for financial firms that generates cited, jurisdiction-aware guidance from regulatory sources, live web research, a curated tax corpus, and private user documents
- Built LangChain RAG pipeline with deterministic query routing, search reranking, and adaptive research modes
- Features include deterministic tax calculators, cited results from verified country tax laws, EBM tool for invoice validation and auditable research and tool events.

Multi-Tenant RAG

January 2026

Full-Stack RAG Application

[GitHub](https://github.com)

- Built a multi-tenant RAG and agentic operations assistant with FastAPI and Next.js, combining intent-aware orchestration, cited answers, reranking, and tenant-scoped semantic retrieval.
- Enforced tenant isolation across JWT authorization, PostgreSQL records, Redis cache keys, Qdrant vector filters, and tool execution to prevent cross-organization data access.
- Implemented PDF and DOCX ingestion with overlapping chunking, MiniLM embeddings, metadata and date filters

TransformerVAE

May 2025 – March 2026

Geospatial AI Research Project

[GitHub](https://github.com)

- Implemented a physics-informed Transformer-VAE architecture that combines a self-attention mechanism encoder with PROSAIL as a fixed physical decoder for ecosystem monitoring and vegetation parameter retrieval
- Implemented truncated-normal latent distributions, sensor-response simulation and CUDA-enabled PyTorch training

Some of the projects and software products I have worked on are part of open source contributions and others are proprietary.

TECHNICAL STRENGTHS

Programming Languages

TypeScript, JavaScript, Python, C/C++, SQL, Swift

Frameworks & Libraries

Next.js, React, Node.js, Elysia, FastAPI, LangChain, SQLAlchemy, Drizzle ORM

Databases & Messaging

PostgreSQL, ClickHouse, Qdrant, Redis, BullMQ, Redpanda

Security & Authentication

Better Auth, OAuth, SSO, two-factor authentication, RBAC

Testing & Tooling

Playwright, Vitest, Pytest, Bun, Turborepo, pnpm, Git