

CURRICULUM VITAE

ADNAN AHMED MOHAMUD

Software Engineer | Data Scientist | Technical Founder

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PROFESSIONAL PROFILE

Software Engineer, Data Scientist, and Technical Founder with experience building software products, open-source developer tooling, and data-driven platforms from concept to deployment. My work spans full-stack software engineering, machine learning, data engineering, and product architecture, with a focus on designing systems that simplify complex workflows while maintaining strong engineering principles.

I have founded technology ventures, developed commercial software for clients, and created reusable developer infrastructure for machine learning practitioners. My interests lie at the intersection of software engineering, artificial intelligence, healthcare technology, and data-driven product development.

PROFESSIONAL EXPERIENCE

Founder & CEO

March 2026 – Present

PataDoc | Nairobi, Kenya

PataDoc is an early-stage digital health company connecting patients with verified private doctors through a modern software platform.

- Define product strategy, long-term technical vision, and go-to-market direction.
- Design and maintain the platform's software architecture across backend, frontend, and database layers.
- Lead end-to-end product development — from specification and prototyping to deployment and iteration.
- Build and manage core healthcare technology features including doctor onboarding, booking, and records infrastructure.
- Manage technical planning, execution timelines, and product roadmap prioritisation.

Founder & Technical Director

2026 – Present

Kulane Labs | Nairobi, Kenya

A software development agency specialising in modern web applications and digital products for East African businesses.

- Lead client discovery, requirements gathering, and technical consultation.
- Design software architecture and own the full-stack implementation of client projects.
- Build and deploy responsive, scalable web applications using modern frameworks.

- Provide ongoing maintenance, technical support, and product iteration.

PROJECTS

DSK Intelligence — Founder & Lead Developer

Designed and developed a modern analytics platform that enables users to upload structured datasets, perform statistical analysis, visualise results, and generate comprehensive narrative reports through a simple web interface.

- Designed the product architecture and end-to-end user experience.
- Built the backend API layer, data processing pipeline, and visualisation engine.
- Implemented the frontend interface for dataset management, analysis configuration, and report generation.
- Deployed the full platform to production.

Technologies: *Python, FastAPI, Next.js, TypeScript, React, SQL, Supabase, Groq*

ds-toolkit — Creator & Maintainer

An open-source Python framework covering the complete post-collection data science lifecycle — from profiling and preprocessing to model evaluation, explainability, experiment tracking, and automated reporting.

- Designed a seven-stage modular architecture aligned with the machine learning lifecycle.
- Implemented sklearn-compatible APIs following fit/transform design principles to ensure ecosystem interoperability.
- Built CV-safe preprocessing pipelines with configurable strategies to prevent data leakage.
- Integrated Optuna hyperparameter optimisation, SHAP explainability, and MLflow experiment tracking.
- Implemented automated model card generation and Jupyter-native reporting outputs.
- Packaged the library with optional dependency groups, comprehensive automated testing, and full technical documentation.
- Published to PyPI and maintained as an active open-source project.

Technologies: *Python, scikit-learn, Optuna, SHAP, MLflow, Jupyter, PyPI*

EDUCATION

Bachelor of Data science

May 2025 – Present

Kenya Methodist University

Coursework includes machine learning, statistical analysis, data management, database systems, and artificial intelligence.

Professional Certificate in Data Science

Oct 2024 – Apr 2025

Moringa School

Intensive programme covering data analysis, machine learning, and applied data science with Python.

Bachelor of Business Information Technology (Incomplete)

May 2023 – Sep 2024

Mount Kenya University

Completed four academic trimesters.

PROFESSIONAL CERTIFICATIONS

Data Scientist Associate

DataCamp

Issued November 2025

TECHNICAL COMPETENCIES

Programming Languages: Python • TypeScript • JavaScript • SQL

Data Science & Machine Learning: Data Analysis • Statistical Modelling • Machine Learning • Feature Engineering • Hyperparameter Optimisation (Optuna) • Model Evaluation • SHAP Explainability • MLflow Experiment Tracking

Software Engineering: Object-Oriented Programming • REST API Development • System Design • Software Architecture • Version Control (Git) • Package Development • Testing • Technical Documentation

Web Technologies: React • Next.js • Tailwind CSS • Supabase • FastAPI

Development Tools: Git • GitHub • Vercel • PyPI

OPEN SOURCE

ds-toolkit

Creator and maintainer of an open-source Python framework for machine learning workflows and developer productivity.

GitHub: github.com/ShadowGodd1/ds-toolkit

LANGUAGES

English (Fluent) • Kiswahili (Fluent) • Somali (Native)

PROFESSIONAL INTERESTS

Artificial Intelligence • Software Engineering • Healthcare Technology • Data Science • Machine Learning Infrastructure • Product Development • Open Source Software