

# Elvis Moraal

## Machine Learning Engineer

Nairobi, Kenya - Remote EMEA

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A highly skilled, English speaking Software Engineer with experience in designing scalable, high-performance distributed systems.

## SKILLS

### Backend & Microservices Development

- gRPC – Efficient, high-performance communication between microservices using Protocol Buffers.
- Event-Sourcing & Pub/Sub – Architecting event-driven systems using Apache Kafka, Google Pub/Sub, and Debezium for Change Data Capture (CDC).
- Python & TypeScript – Strong backend development expertise using FastAPI, Django, Express.js, Nice-grpc, and NestJS. Familiarity with Pydantic, PydanticAI, Tensorflow, ScikitLearn, Numpy, Pandas and other Machine Learning libraries
- PostgreSQL (PSQL) – Database modeling, query optimization, and integration with event-driven architectures.
- Debezium – Implementing CDC for real-time data synchronization across distributed systems.

### AI & LLM Integration

- LLM Integration – Implementing AI-driven applications using OpenAI and custom fine-tuned models from Hugging Face.
- Qdrant Vector database expertise for similarity search and vector storage

### Frontend Development

- Next.js & TypeScript – Developing scalable, server-side rendered (SSR) and static sites with API integration.
- Angular, React & Vue

### Cloud & DevOps

- Google Cloud Platform (GCP) – Expertise in Cloud Run, Kubernetes (GKE), Pub/Sub, Cloud SQL, and AI/ML services.
- Kubernetes (K8s) – Orchestrating and scaling microservices using Kubernetes
- CI/CD & Infrastructure as Code – Implementing automation pipelines using Terraform, GitHub Actions, CircleCi, and Cloud Build.

## EXPERIENCE

Pariti Inc, Nairobi - *Lead Software engineer - remote - full-time*

DEC 2024 - PRESENT

- Designed data pipelines for a large AI pipeline
- Infrastructure design with GRPC, REST, EventSourcing and distributed microservices
- Advised on key design decisions for AI model integration to existing infra
- PSQL Database Query Optimization
- Optimized model performance using real-time caching and faster workflows
- Implemented and tested and validated Vector searching applications in production use cases.

Pariti Inc, Nairobi - *Senior Software engineer - remote - full-time*

FEB 2023 - DEC 2024

- Partnered with a team of smart people to build an AI powered talent sourcing platform at [talent.pariti.io](https://talent.pariti.io)
- Launched one of Africa's best compensation insights [insights.pariti.io](https://insights.pariti.io)
- Scaled infrastructure to handle +100k users
- handled data migrations and database modeling at scale
- Built AI workflows and scaled system design to accommodate growing user base

Revolution Analytics Limited, Nairobi - *Fullstack Software developer - hybrid - full-time*

JAN 2021 - JAN 2023

- Software architecture design and OOP practices
- Built SaaS lending systems for fintech
- AI identity verification systems
- Implemented XGB boost models

Obodo Limited, Nairobi - *Full stack developer - remote - Contract*

FEB 2022 - JUNE 2022

- Using flutter, I built a mobile app used in the real-estate market to handle tenant registration and payments
- No-code SaaS Bubble experience

Afrisoft Developers, Nairobi - *Co-founder*

FEB 2022 - JUNE 2022

- Co-founded a software development company in Nairobi
- Handling Payment integrations for SMEs

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## **EDUCATION**

Mount Kenya University, Nairobi - *BSC Computer Systems Engineering*

MAY 2018 - DEC 2022

## **LANGUAGES**

English C1-C2 - Fluent

## **AWARDS**

Google Developers Student Africa (GDSC) award - 2021

## **REFERENCES**

Kristian Freed - Founding Engineer at Slingshot AI and former CTO at Pariti Inc

Chiara Stramaccioni - Senior Data Scientist at Pariti

Yacob Berhane - CEO and Founder at Pariti