

Nyasha Mandizvidza

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Personal Profile:

AI Systems Engineer specializing in building production-grade intelligent systems for enterprise environments, particularly within banking and financial services. Proven track record of delivering scalable AI solutions, including fraud detection, real-time data pipelines and LLM-powered automation that improve operational efficiency and decision-making. Strong expertise in Java and Python, supported by a background in system integration, distributed architectures and production machine-learning deployment.

Work Experience:

AI and Enterprise Data Specialist, AFC Commercial Bank

January 2025 - Present

- Led the design and deployment of an AI-enabled workflow automation platform, digitizing legacy processes and providing end-to-end workflow traceability, auditability and real-time visibility into departmental bottlenecks.
- Built a real-time data pipeline using Apache Kafka, PostgreSQL and Python to ingest transaction and customer-flow data, supporting analytics and controlled model-retraining workflows.
- Designed and implemented a fraud-detection solution using neural networks and Explainable AI techniques, reducing false positives by 12% and improving model explainability and auditability.
- Developed an LLM-powered sentiment-analysis engine using OpenAI APIs and Hugging Face models to process multilingual feedback from social media, call-centre transcripts and surveys.
- Developed Jenkins and Docker pipelines to automate model training, validation, packaging and controlled deployment into production environments.
- Collaborated with Operations, Information Security and Compliance teams to ensure AI solutions met internal security, privacy and regulatory requirements.
- Evaluated and prototyped reinforcement-learning and optimization techniques for banking use cases, including loan-default prediction and asset-allocation analysis.

Systems Developer, AFC Commercial Bank

September 2023 - December 2024

- Designed and implemented APIs for the Equals Loan Management System, improving loan processing efficiency by 30%.
- Integrated ZEEPAY API with Temenos T24, enabling seamless electronic funds transfers via ZimSwitch and enhancing transaction processing capabilities.
- Built an API integration with ZIMRA TaRMS, improving regulatory compliance and automating tax reporting workflows.
- Developed a money transfer service platform, integrating with Mukuru, Mama Money, Western Union, MoneyGram and FlexiExpress to enable multi-channel remittances.
- Delivered banking solutions in jBASE (versions, reports, queries), improving system performance, usability and operational efficiency.
- Implemented CI/CD pipelines (Jenkins, GitLab), reducing deployment time and increasing release reliability.
- Developed data analytics dashboards using Qlik and Power BI, enabling data-driven decision-making across departments.
- Contributed to enterprise systems including Asset and Liability Management (ALM) and Fixed Assets Management (FAMS), supporting financial management and reporting operations.

Software Developer, ZARNet

November 2021 - August 2023

- Designed and developed enterprise and public-facing applications using Java (Spring Boot), PHP (Laravel) and JavaScript, delivering secure and scalable systems.
- Automated internal business workflows using scripts and bots, reducing manual processes and improving operational efficiency.
- Upgraded and optimized Odoo ERP, improving system performance, scalability and user experience.
- Collaborated with stakeholders to gather requirements and deliver tailored software solutions, aligning technical implementations with business needs.
- Produced technical and functional documentation, improving system maintainability and onboarding efficiency.

- Reviewed and enhanced code quality through code reviews and refactoring, ensuring adherence to best practices and performance standards.

Education:

University of East London - London, UK

January 2024 - April 2026

Master of Science Computer Science (Distinction)

Great Zimbabwe University - Masvingo, ZW

March 2019 - June 2023

Bachelor of Commerce (Honours) in Information Systems (Upper Second Division)

Degree Class: 2.1

Pamushana High School, Bikita, Zimbabwe (“A” Level)

2017 - 2018

Sciences: Computer Science, Mathematics, Statistics, Chemistry (Passed 4 Subjects)

Chibi High School, Chivi, Zimbabwe (“O” Level)

2013 - 2016

“O” Level (Passed 10 Subjects including English and Mathematics)

Certifications:

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| • Oracle Certified Professional: Java SE 17 Developer (1Z0-829) - Oracle | December 2024 |
| • AWS Certified Developer (DVA-C02) - Amazon Web Services | December 2024 |
| • Certified in Cybersecurity (CC) - ISC ² | November 2024 |

Technical Skills:

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- Programming & Frameworks: Java (Spring Boot, Hibernate/JPA), Python (FastAPI), JavaScript (React, Node.js)
 - AI Engineering & LLMs: OpenAI APIs, Hugging Face Transformers, RAG pipelines, embeddings and vector search (FAISS, Pinecone), AI agents and tool calling, LangChain, LangGraph, prompt engineering, Scikit-learn, PyTorch, MLflow
 - Data Engineering & Messaging: Apache Kafka, Spark, Airflow, dbt, RabbitMQ, ETL/ELT pipelines, data modelling and data warehousing
 - Cloud & DevOps: AWS (EC2, S3, Lambda, SageMaker), Docker, Kubernetes, Terraform, Jenkins, Git, Prometheus and Grafana
 - Databases: PostgreSQL, Oracle, MySQL, MongoDB and Redis
 - Core Banking: Temenos T24 (TAFJ, jBASE, OFS, COB) and Intellect IDC
 - APIs & Architecture: REST, GraphQL, microservices, distributed systems and enterprise system integration

Selected Projects:

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- SentinelRisk (Real-Time Transaction Risk Platform): Developed a Kafka-based pipeline using Python, FastAPI and PostgreSQL to process synthetic financial transaction events, generate explainable risk scores and track model experiments with MLflow.
 - FinStream (Financial Data Platform): Designed batch and streaming data pipelines using Kafka, Spark, Airflow and dbt, with automated data quality tests and dimensional models for transaction analytics.
 - PolicyLens (Governed Enterprise RAG Assistant): Developed an enterprise document assistant with source citations, role-based access, tool calling, evaluation pipelines and human approval for sensitive actions.

Awards, Hackathons and Competitions:

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- Presidential Innovation Awards - Gold Medal, 2022 Global Competitions (Awarded April 2023)
 - UNESCO India-Africa Hackathon - Gold Medal - Developed a Digital Partograph Application (November 2022)
 - National Student Cluster Building Competition - 2nd Place - Built prototype supercomputer using Raspberry Pi clusters and CentOS Linux (January 2022)