



Fandishe Mussa

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● ABOUT ME

Software Engineer and Data Professional with experience in remote data curation, data quality review, software development, digital banking systems, and technical teaching. Currently working as a Data Curator while pursuing a Master's degree in Software Engineering, with a strong background in backend development, databases, data preprocessing, metadata validation, software troubleshooting, and technical research.

Skilled in Java, Spring Boot, REST APIs, GraphQL, MongoDB, PostgreSQL, Python, Git/GitHub, Docker fundamentals, RabbitMQ, and remote collaboration workflows. Familiar with DevOps and cloud-native engineering concepts, including CI/CD pipelines, Docker-based deployment, Kubernetes fundamentals, infrastructure as code, Terraform, Terragrunt, environment configuration, load balancing, monitoring, scalable backend systems, database optimization, and reliable software delivery.

Strong interests include machine learning, NLP, data mining, distributed systems, DevOps automation, cloud infrastructure, scalable software architecture, and practical software solutions. Detail-oriented and self-motivated, with the ability to work independently in remote teams, communicate clearly, document technical work, and contribute to secure, reliable, scalable, and data-driven technology projects.

● WORK EXPERIENCE

DATA CURATOR | DATA ANALYST | DATA MAINTENANCE - VEEVA SYSTEMS (REMOTE) – 20/10/2024 – Current

- Collect, organize, review, and maintain structured data according to quality standards and project requirements.
- Perform data validation, metadata review, quality control, and consistency checks to improve dataset accuracy and reliability. Conduct online research and information verification to support accurate and up-to-date data records.
- Work with remote teams to complete assigned data tasks, follow documentation guidelines, and meet productivity and quality targets.
- Apply strong attention to detail in data cleaning, annotation review, profile validation, and information management.

SENIOR DIGITAL CHANNEL OFFICER – RAMMIS BANK — ADDIS ABABA, ETHIOPIA – 10/09/2023 – 15/03/2024

- Supported digital banking channels and contributed to the improvement of customer-facing digital service delivery.
- Monitored, maintained, and supported digital banking platforms to improve service availability, reliability, and operational efficiency.
- Worked with technical, operational, and business teams to identify digital service issues, analyze root causes, and support timely resolution.
- Assisted in improving the performance and reliability of digital banking systems through issue tracking, user support, documentation, and operational follow-up.
- Contributed to digital transformation initiatives by supporting system updates, process improvements, and coordination between banking operations and technical teams.
- Gained practical exposure to digital infrastructure concepts, including system availability, service monitoring, incident handling, load balancing concepts, deployment support, and scalable digital service operations.
- Supported communication between users, technical teams, and stakeholders to ensure smooth operation of digital channels and banking services.
- Prepared reports, support notes, and documentation related to digital channel activities, service issues, and operational improvements.

SOFTWARE ENGINEER – COOPERATIVE BANK OF OROMIA — ADDIS ABABA, ETHIOPIA – 20/03/2023 – 24/08/2023 – ADDIS ABABA, ETHIOPIA

- Developed, maintained, and supported software systems for banking and digital service operations.
- Worked on backend development, debugging, testing, troubleshooting, and system improvement tasks.
- Supported system reliability, performance improvement, and issue resolution for internal software platforms.
- Contributed to scalable backend practices, including API improvement, database efficiency, modular code design, and performance-aware development.

- Gained exposure to DevOps concepts such as Git-based workflows, application deployment, environment configuration, build processes, monitoring, and release support.
- Assisted technical teams with software updates, documentation, operational support, and communication related to digital banking systems.
- Contributed to technical discussions around load balancing, software scalability, service reliability, and maintainable deployment workflows.

ASSISTANT LECTURER IN UNIVERSITY – HARAMAYA UNIVERSITY – 18/03/2021 – 17/03/2023 – HARAMAYA, ETHIOPIA

I taught a different course at Haramaya University under the College of Computing and Informatics, Department of Software Engineering. The list of courses includes:

- Introduction to Computer Applications
- Fundamentals of Computer Programming
- Android Mobile Application Development
- Information Security
- Web Design and Programming I
- Database Management Systems
- Introduction to Object-Oriented Programming
- Introduction to Data Structures and Algorithms

● **EDUCATION AND TRAINING**

06/10/2020 – 27/02/2021 Haramaya, Ethiopia
INTRODUCTION TO CYBERSECURITY Cisco Network Academy

Website <https://www.netacad.com/>

10/11/2020 – 16/02/2021 Haramaya, Ethiopia
CYBERSECURITY ESSENTIALS Cisco Network Academy

Website <https://www.netacad.com/>

14/10/2019 – 21/11/2019 Haramaya, Ethiopia
COMPUTER MAINTENANCE TRAINING Haramaya University

Website <https://www.haramaya.edu.et/>

10/11/2019 – 18/12/2019 Haramaya, Ethiopia
MICROSOFT SQL AND ASP.NET MVC TRAINING Haramaya University

Website <https://www.haramaya.edu.et/>

17/09/2016 – 27/02/2021 Haramaya, Ethiopia
SOFTWARE ENGINEERING Haramaya University

Website <https://www.haramaya.edu.et/>

● **LANGUAGE SKILLS**

Mother tongue(s): **OROMO | AHMARIC**
 Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
TURKISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Programming Languages

Java | CSS3 | TypeScript | Dart | C# | C++ | JavaScript | HTML5

Frameworks

Spring Boot | Spring Framework | FastAPI | Flask | Hibernate | React.js | Keras | Apache Kafka | GraphQL | Scikit-learn | Tailwind CSS | Spring Security | Django | shadcn/ui | gRPC | JUnit | Apache Airflow | Flutter | TensorFlow | Next.js | Spring Data JPA | Mockito

Cloud Platforms

Microsoft Azure | Amazon Web Services (AWS) | Google Cloud Platform (GCP)

Data Engineering

Delta Lake | Spark DataFrames | Data Lake | Azure Data Factory | Data Pipelines | Medallion Architecture | Data Modeling | ETL/ELT | Azure Databricks | Spark SQL | Data Warehousing | Data Integration | Apache Spark

Data Analysis

SQL | Pandas | NumPy | Data Cleaning | Jupyter Notebook | Microsoft Excel | Data Wrangling | Data Validation | Predictive Analytics | Data Profiling | Dashboard Development | Exploratory Data Analysis (EDA) | Data Quality Assessment | Feature Engineering | Statistical Analysis | Python

Machine Learning & AI

Machine Learning | Computer Vision | Model Evaluation | Deep Learning | Natural Language Processing (NLP) | Data Augmentation | Neural Networks | OpenCV | Model Training | Model Deployment

Databases

PostgreSQL | SQLite | MySQL | Database Design | MongoDB | Database Optimization | SQL Server

DevOps & Infrastructure

Docker | CI/CD | Kubernetes | Git | Terraform | Linux | Bash | GitHub Actions | Infrastructure as Code (IaC)

Version Control

Git, GitHub, GitLab

Visualization & Business Intelligence

Recharts | Dashboard Design | KPI Reporting | Matplotlib | Plotly | Power BI | Data Visualization

Software Engineering

Object-Oriented Programming (OOP) | Microservices | Test-Driven Development (TDD) | Software Architecture | Unit Testing | Integration Testing | Agile | Scrum | SOLID Principles | Design Patterns

Collaboration & Project Management

GitHub | Jira | Confluence | Trello

● **CONFERENCES AND SEMINARS**

14/04/2026 – 14/04/2026 Istanbul

A Hybrid Feature-Based Machine Learning Approach for Detecting Malicious Qr Codes for Turkish Websites

Link <https://bilselkongreleri.com/wp-content/uploads/ANI-KONGRE-KITABI-3.pdf>

● **PROJECTS**

02/02/2026 – CURRENT

Enterprise Data Quality Monitoring & Remediation Platform

Built an enterprise-style Data Quality Monitoring and Remediation Platform for detecting, tracking, and resolving data quality issues across database tables.

The system validates source data using configurable YAML rules, stores historical quality results in PostgreSQL, generates alerts, tracks SLA compliance, supports data profiling, anomaly detection, schema/data drift monitoring, and provides issue-level root cause analysis.

I developed a modern dashboard and API-driven architecture using FastAPI, Next.js, Tailwind CSS, shadcn/ui, TanStack Table, Recharts, and PostgreSQL. The platform includes role-based access control, audit logs, alert ownership, issue remediation workflows, cleaning job approval, before/after change history, rollback support, and exportable reports.

Key features include:

- Automated data quality checks for nulls, duplicates, formats, ranges, categories, freshness, and referential integrity
- Enterprise dashboard for monitoring quality score, failed checks, alerts, SLA status, profiling, lineage, and remediation
- Data Remediation Center for previewing, approving, executing, and auditing data cleaning jobs
- FastAPI backend with secured API endpoints
- PostgreSQL monitoring database for run history, alerts, issue details, SLA results, audit logs, and cleaning jobs
- Docker support, CLI commands, release packaging, configuration templates, and test automation

This project demonstrates practical skills in data engineering, data quality, backend API development, dashboard development, database design, governance workflows, and enterprise software architecture.

Link <https://github.com/fandishemussa/Automated-Data-Quality-Monitoring-System>

English Oromo Dictionary — Android Mobile Application

Developed **English Oromo Dictionary**, a Flutter-based Android educational mobile application designed to support English–Afaan Oromoo vocabulary learning. The application provides a user-friendly dictionary experience for learners by allowing them to search English and Afaan Oromoo words and access translations in a simple mobile interface. The app was developed using **Flutter and Dart** and released for **Android on Google Play Store**. Other Flutter-supported platforms such as iOS, web, Windows, Linux, and macOS have not yet been published.

Main responsibilities and achievements:

- Designed and developed the Android version of the English–Afaan Oromoo dictionary app using Flutter.
- Built a clean and user-friendly mobile interface for vocabulary search and language learning.
- Implemented dictionary search functionality for English and Afaan Oromoo words.
- Improved accessibility for Afaan Oromoo learners through a mobile-first educational tool.
- Prepared and released the Android version on Google Play Store.
- Developed the project under **Horn Development Team**, a planned future company/technology initiative.

Skills and technologies used:

Flutter, Dart, Android development, mobile UI/UX design, educational technology, dictionary application development, Google Play deployment, multilingual application development, Material Design, SharedPreferences, AES-CBC encryption, SHA-256 key derivation, Flutter TTS, Share Plus.

Links <https://github.com/fandishemussa/Hamid-Muudee-Dictionary> | https://play.google.com/store/apps/details?id=com.horndevelopmentteam.oromo_dictionary

Motivated and results-oriented Software Engineer and Data Engineer with expertise in backend development, cloud technologies, data engineering, and machine learning. Passionate about designing scalable, secure, and data-driven solutions while continuously learning emerging technologies. Committed to delivering high-quality software and contributing effectively to innovative, collaborative teams.

Fandishe A. MUSSA