Ahmed Abdi

Senior Software Engineer

AI Systems · Distributed Architecture · Platform Engineering

5+ Years Experience

AI · Research · Fintech

CONTACT

hosnyfreelancer@gmail.com

+251 915 783 511

linkedin.com/in/ahmed-abdi-594761177

SKILLS

AI & Agentic Systems

LangGraph · LiteLLM · MCP · LangChain · OpenAI / Bedrock / Azure · RAG Pipelines · pgvector

Languages & Frameworks

Python · TypeScript · Java · JavaScript · FastAPI · NestJS · Node.js · Spring Boot · React

Cloud & Infrastructure

AWS (ECS · Fargate · RDS · S3 · ECR) · Docker · Kubernetes · Terraform · CDK · GitHub Actions · Jenkins

Databases & Messaging

PostgreSQL · MongoDB · MySQL · Redis · Kafka · SQS/SNS · RabbitMQ · ActiveMQ

APIs & Auth

REST · GraphQL · SOAP · JWT · OAuth · SSL · SMPP · USSD

Observability

Prometheus · Grafana · New Relic · OpenTelemetry

Practices

Microservices · DDD · TDD · CI/CD · Scrum · Agile · Code Review

EDUCATION

BSc Computer Science

Jijiga University · 2018

REFERENCE

Khaled Hamada

Senior Software Engineer, Encore

Khaledosman737@gmail.com

Senior Software Engineer with 5+ years owning high-throughput, event-driven systems across fintech, research, flight, and AI sectors. End-to-end ownership from architecture through production observability. Known for leading delivery on time, driving engineering discipline, and building AI-native infrastructure that is reliable, auditable, and secure.

EXPERIENCE

AI Engineer

ACA Group · 2026 – Present · Remote

- Owned production RAG search and document ingestion: cut retrieval p50 **93%** (**8.2 s → 0.6 s**, **13x**) on a **509K-chunk** benchmark with pgvector HNSW, matching exact search's top 5 results in **25 of 25** runs.
- Sole author of the Zendesk-to-RAG sync (**800 articles**): raised **590-file** ingestion from **79%** to **99.7%** by fixing root causes. Built nightly ingestion for a **4,300+** document library across **26 file types**.
- Built a bulk contract parser for document processing (**20K contracts**) with strict JSON output.
- Made re-indexing safe in tests: a failed re-index kept the old version searchable, 4 re-syncs at once left one document, and search never returned mixed versions.
- Built 3 MCP (Model Context Protocol) tools that let AI assistants file compliance requests through existing backend services.
- Built answers in a user-chosen language, with 90 languages available in the UI.

Senior Software Engineer

Channel Dynamics · Aug 2025 – Jan 2026 · USA, Remote

- Built compliance-critical transcript ingestion on AWS ECS/Fargate and SQS (Node.js/TypeScript).
- Built a Google Drive watch-channel pipeline via API Gateway into document processing and pgvector.
- Integrated OpenAI for MNPI classification at **98%** accuracy, with audit-ready output stored immutably in S3 and PostgreSQL.
- Sole developer of the AWS infrastructure in Terraform (API Gateway, SQS, Lambda), and owned the full lifecycle from application logic to secure REST APIs.

Senior Software Engineer

AlphaSense · Nov 2024 – Jul 2025 · Finland, Remote

- Developed the Market Research entitlements system with **100%** accurate document access, so users see only what they are intended to, across research types and publishers.
- Designed GraphQL and REST APIs for complex entitlement logic, backed by SQL schemas and queries optimized for high throughput and low latency.
- Implemented Redis caching to improve response times, and async messaging on AWS SNS/SQS.
- Contributed to document indexing and reprocessing with Solr.

Senior Software Engineer, USSD and SMS Platform

IT Sky Solutions · Aug 2024 – Jan 2026 · Nigeria, Remote · Contract

- Built a production USSD banking platform for a Nigerian bank on one shortcode across MTN, Glo, 9mobile and Airtel (SMPP, SOAP, HTTP).
- Delivered account opening, NIBSS interbank transfers, bill payments, airtime, card management and PIN change over USSD.
- Secured sessions with Redis-backed recovery, PIN verification, encrypted sessions and full audit logging.
- Integrated core banking APIs (SOAP/REST) and led end-to-end testing on live telco networks to production go-live.

Backend Engineer

Rays Microfinance · Mar 2020 – Nov 2024 · Ethiopia

- Sole author of a Banks Gateway microservice linking Sahay mobile banking to Ethio-Switch and **4 banks** (Hijra, Awash, Abyssinia, Bunna).
- Delivered a full Islamic digital loan management system.
- Built an SMS service handling **500K+** daily notifications and real-time Slack transaction reports.

PROJECTS

Bulk SMS Platform

- Designed and built a multi-tenant SMS aggregation platform processing **5–10M messages/day**, spanning a distributed ingestion pipeline (SMPP/RabbitMQ), real-time CDR analytics, role-based client portal, and automated billing, deployed with Docker on Linux.

Stack: Java · Spring Boot · Jasmin · PostgreSQL · RabbitMQ · Redis · React · Docker · nginx