

Muhammad Shakaib Aarsalan

AI Engineer · Full-Stack Developer

I build AI products end to end: voice agents that take real phone calls, RAG search over tens of millions of records, and the multi-tenant SaaS around them.

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EXPERIENCE

Full-Stack & Cloud Engineer · Xaibridge

SEP 2026 – PRESENT

Lahore, Pakistan

- Led the build of a unified **multi-tenant admin platform** (Next.js 14, TypeScript, MySQL, Redis) with per-tenant permissions, 5 staff roles, 2FA and an audit trail; grew automated tests from zero to **about 3,000**.
- Moved **about 95% of email volume (~450k/month)** from SendGrid to Amazon SES and built an in-house campaign tool with scheduling, rate limiting, bounce guards and live analytics.
- Cut runaway cloud-database reads from **48k to under 1k per 5 minutes** with a shared Redis cache and server-side queries; hardened auth and API security.

Software Engineer · Hello Future Technologies

MAY – AUG 2026

Remote

- Sole developer of **Invento** (inventobase.com), a multi-tenant inventory SaaS: 13 modules, 25 models across 11 Django apps and a six-role permission system.
- Built self-service tenant onboarding; deployed serverless on Vercel with PostgreSQL on Supabase and CI/CD.

AI Developer · FourDevs.ai (Devfactory.io)

JUN 2025 – MAY 2026

Lahore, Pakistan · shipped 9 AI products end to end

- Sandstorms AI:** built solo a voice-agent SaaS for inbound and outbound calls. Streaming STT → LLM → TTS with barge-in gives **sub-second time-to-first-audio** over Twilio and Asterisk, with voice cloning, booking and Stripe billing.
- Govava.com:** RAG search on AWS Bedrock plus a scraping and cleaning pipeline over **tens of millions** of product records (Lambda, EC2, DynamoDB, Elasticsearch, Redis queues).
- Also a YouTube monetization predictor (frames + transcript, SageMaker), Text-to-SQL, a WhatsApp booking agent, social automation, a clinical questionnaire system on Azure and an LMS backend with RAG.

Machine Learning Intern · Elevvo Pathways

JUL – AUG 2025

- Trained and tuned ML models across four tasks, including dataset preparation and evaluation (TensorFlow, scikit-learn).

PROJECTS

Attendify

attendify.pro

My own SaaS: **contactless fingerprint capture from a phone camera** plus face verification, liveness, rotating QR, GPS geofencing and device checks, so no scanner hardware is needed. Multi-tenant, with a 50+ endpoint TypeScript API, FastAPI ML service and a 7-container Docker stack.

NexaLM

nexalm.vercel.app

Self-hosted multi-model LLM and image platform that runs on free Colab and Kaggle GPUs. Open source.

Try-On

tryonlab.vercel.app

AI virtual try-on with a Chrome extension, a store widget and a Cloudflare Worker API with swappable model providers. Open source.

Ferry

github.com/ahkamboh/ferry

Windows port of an open-source Tauri/Rust app that moves AI-agent chats between accounts.

IMPACT

9

AI products shipped end to end

<1s

voice-agent time to first audio

10M+

product records in RAG search

~3k

automated tests on one platform

SKILLS

AI & ML

LLM apps, RAG, voice agents (Deepgram, ElevenLabs), LangGraph, n8n, MCP, computer vision (InsightFace, MediaPipe, OpenCV), Bedrock, SageMaker

Backend

Python, TypeScript, Django, FastAPI, Node.js (Express, Fastify), REST, WebSockets

Frontend

React, Next.js

Data

PostgreSQL + pgvector, MySQL, Redis, Elasticsearch, DynamoDB

Cloud & DevOps

AWS (Lambda, EC2, S3, SES), Azure, Cloudflare, Vercel, Docker, GitHub Actions, Twilio, Asterisk

EDUCATION

BS Computer Science

University of Management and Technology, Lahore · 2022 – 2026
CGPA 3.73 / 4.00 · Rector's Award twice (4.00 semesters)

CREDENTIALS

HCCDA-AI, Huawei Certified

Cloud Developer – AI

Huawei · 2025

TensorFlow Fundamentals

Microsoft · 2025

Preprint: Influence of AI Chatbots on Customer Satisfaction in E-Commerce

Jalil & Aarsalan · Zenodo · 2026 · doi:10.5281/zenodo.20834399

OPEN TO

AI Engineer · Full-Stack Developer

Lahore, Islamabad or remote · full-time and freelance