

SHAHMEER IRFAN

AI Engineer | Product Engineer

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EXPERIENCE

Astera March 2026 - Present
Product Growth Engineer *Hybrid, Karachi, Pakistan*

- Built in-house automation inside Astera Studio by integrating MCP (Model Context Protocol) connectors for Gmail, Jira, and Dynamics CRM, reducing manual task handling time by **40%** across internal workflows.
- Shipped end-to-end solutions for email marketing automation and Jira ticket creation, cutting average ticket creation time from **8 minutes to under 30 seconds** and improving cross-team response efficiency by **35%**.

AgentumAI Dec 2025 - March 2026
AI Engineer *Remote, Los Angeles, US*

- Shipped **5+** production-grade AI automation systems for international clients across the **US, France, and the Philippines**, integrating n8n, GoHighLevel, HubSpot, and Airtable to automate lead capture, CRM workflows, and multi-channel follow-ups.
- Designed end-to-end CRM infrastructures for carpet cleaning and real estate businesses, including lead pipelines, automated tagging, multi-stage nurture sequences, appointment booking, and sales pipeline automation.
- Developed inbound and outbound AI voice agents with Retell and Vapi for lead qualification, dynamic call routing, automated follow-ups, and real-time CRM synchronization across client accounts.

Nexor Labs July 2025 - Oct 2025
AI Engineer *Remote, London, UK*

- Developed end-to-end AI systems with intelligent web scraping, NLP-based lead enrichment, and personalized content generation, achieving **50+ lead extractions** and **50 AI-generated personalized emails** in under **12 minutes**.
- Built AI voice agents and autonomous outreach workflows handling reply tracking, conversation management, and intelligent follow-ups with semantic memory powered by Pinecone and LangChain.

PROJECTS

BAQI AI: Shariah Compliant Investment Platform (*1st Runner-Up, JS Bank Hackathon PROCOM '26*) [GitHub](#)

- Architected a multi-agent AI system using CrewAI and Claude Sonnet 4 with **5 specialized agents** to analyze **3,000+ transactions**, extract **14 behavioral signals**, and automate Shariah-compliant portfolio construction.
- Built a 21-day stock forecasting engine using an ensemble of SVM, MLP, and Gradient Boosting with wavelet denoising, achieving **85% directional accuracy** and up to **42% RMSE reduction** across KSE-100 and USD/PKR features.

Waasta: AI Emergency Response System for Karachi (*Runner Up, AI Mustaqbil 2.0 Hackathon*) [GitHub](#)

- Architected a **5-node** LangGraph multi-agent state machine with Groq Whisper STT for Urdu voice parsing and Llama 3.3 70B for triage, automating full incident dispatch to the nearest ambulance across **10 Karachi landmarks** in under **30 seconds**.
- Built a zero-cost real-time response infrastructure using WebRTC voice communication and Supabase Realtime for human-in-the-loop dispatch, with a concurrent broadcast queue managing multiple simultaneous emergency calls.

FastSwype: FYP Partner Matching Platform for FAST University [GitHub](#)

- Developed a Tinder-style PWA using Next.js 16, React 19, Supabase PostgreSQL with Row Level Security, and Firebase Cloud Messaging for FYP partner discovery with smart filtering by skills, campus, and city.
- Reached **3,000+ page views** in the first week and **100+ monthly active users** at launch, with cross-platform push notifications via FCM service workers working across desktop and mobile PWA installations.

ByteMyRepo: RAG-Based GitHub Codebase Assistant [GitHub](#)

- Engineered an end-to-end RAG pipeline that clones public repositories, applies language-aware code chunking, generates HuggingFace embeddings, and indexes them in Pinecone for semantic search across entire codebases.
- Integrated Kimi-72B via OpenRouter for source-grounded code Q&A with reasoning output filtering, delivered through an interactive Streamlit interface for real-time natural language repository querying.

Ustaad AI: Full Circle Recruitment Platform for Pakistan [GitHub](#)

- Built a full-stack recruitment platform using Next.js 16, React 19, TypeScript, and PostgreSQL with a smart matching algorithm, geospatial job search, and secure escrow payments connecting laborers, skilled workers, and enterprises.
- Implemented multi-layer verification covering ID, skills, and background checks alongside real-time chat and a reputation scoring system to reduce hiring friction across blue-collar and professional roles.

EDUCATION

FAST NUCES, Karachi

Expected: June 2027

Bachelor of Science in Computer Science

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms (C++), Operating Systems, Computer Architecture, Theory of Automata, Computer Organization, Assembly Language.

Government College for Men, Nazimabad

Aug 2021 - June 2023

Intermediate, Pre-Engineering

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, SQL

AI & ML: LangChain, LangGraph, CrewAI, OpenAI API, Claude API, TensorFlow, PyTorch, scikit-learn, Pinecone, Chroma, MCP (Model Context Protocol), Retell, Vapi, Groq Whisper, OpenRouter

Web & Backend: Next.js, React, Node.js, PostgreSQL, MongoDB, Supabase, Firebase, Streamlit, WebRTC, REST APIs, Vercel

Tools & Platforms: n8n, Make.com, Zapier, GoHighLevel, HubSpot, Airtable, Git, Selenium

CERTIFICATIONS

- DataCamp: Git, Introduction to Python, Machine Learning with scikit-learn, Python Pandas, Working with OpenAI.
- NASA Space Apps Challenge: Galactic Problem Solver.