

Muhammad Asad Saeed

Senior Full Stack & Generative AI Engineer

Lahore, Pakistan (Remote) | UTC+5

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SUMMARY

Full Stack & Generative AI Engineer with 4.5+ years delivering production-grade SaaS platforms, React Native mobile apps, and LangGraph agentic AI pipelines for global clients and startups. Specialized in full stack architecture with TypeScript, Next.js, and Node.js, mobile development with React Native, AI backends with Python and FastAPI, and multi-agent systems with LangGraph end to end. Proven impact: 40% operational efficiency gain, end-to-end AI workflow automation with N8N cutting manual operations to zero, and a live marketplace built entirely from scratch. Available immediately for a remote Senior Full Stack or Generative AI Engineer role.

WORK EXPERIENCE

Technical Lead | Bondly Petcare B.V.

Netherlands (Remote) | November 2025 – Present

- Architected and delivered a full-scale pet-care marketplace from scratch for the Netherlands market, serving Pet Owners and Pet Carers with separate tailored experiences across web and mobile.
- Built cross-platform React Native mobile app with real-time GPS dog walk tracking, live location feed, push notifications via OneSignal, and role-specific onboarding flows.
- Engineered Stripe Connect escrow payment system with funds held on booking and auto-released after a 7-day completion window, with direct bank withdrawal support for carers.
- Built end-to-end trust & safety layer with identity verification and carer certification, and deployed Node.js/PostgreSQL backend on AWS EC2/S3 with CI/CD and a Next.js admin dashboard for full platform oversight.

Senior Full Stack Developer | Luminary Inc.

Canada (Remote) | December 2024 – May 2026

- Architected a Field Service Management SaaS ecosystem using Node.js microservices and MySQL relational modeling for complex multi-role workflows.
- Optimized task dispatching and reporting systems, achieving a 40% increase in operational efficiency through automated technician workflows.
- Engineered high-performance Next.js dashboards and React Native mobile applications featuring advanced form-driven modules and live ticket tracking across web and mobile platforms.
- Deployed and secured cloud infrastructure via AWS (EC2/ECS/S3), implementing robust CI/CD pipelines and RBAC to ensure 99.9% system reliability.

Full Stack Developer | JP Operations LLC.

USA (Remote) | June 2023 – November 2024

- Built GoHaul, a high-concurrency cross-platform logistics platform with a React Native mobile app and web dashboard, managing real-time load booking and fleet tracking with instant driver updates via Socket.io to ensure 99.9% data synchronization.
- Built GoZoom, an internal meeting platform with real-time video conferencing and AI-powered call transcription and meeting summarization via third-party APIs, increasing team productivity by 30% and streamlining knowledge retrieval for stakeholders.
- Engineered scalable microservices with Docker and Azure DevOps, establishing automated CI/CD pipelines that reduced deployment friction and ensured high environment consistency.
- Optimized MongoDB and Firestore architectures with advanced indexing and sharding, sustaining low-latency performance during high-traffic surges across the logistics platform.

Frontend Developer | Technovier Pvt.

Lahore, Pakistan | April 2022 – May 2023

- Optimized e-commerce performance, cutting page load times by 50% through advanced caching, prefetching with React Query and strategic data management.
- Engineered responsive web applications using Next.js and TypeScript, utilizing modern UI libraries like Tailwind and Shadcn UI to deliver scalable, accessible interfaces.
- Improved application performance and maintainability through lazy loading, code splitting, and modular TypeScript architecture, achieving a 25% boost in responsiveness.

FREELANCE & PROJECTS

VAPI to Jobber | AI Voice Lead Automation

Freelance Client Project

VAPI · N8N · OpenAI · Jobber CRM · Webhook Automation

- Built a fully automated 24/7 AI voice lead capture pipeline for a landscaping business where VAPI's AI voice agent answers inbound calls, captures all relevant lead details, and triggers an N8N automation workflow that parses, cleans, and structures the data with zero human receptionist needed.
- Engineered AI-powered lead processing that extracts and normalizes key information including client name, address, and service requirements, then queries Jobber CRM to determine if the caller is an existing client or a new lead, eliminating duplicate records automatically.
- Integrated a smart Jobber CRM pipeline that creates a fresh client profile with an attached work request for new leads, and for existing clients skips profile creation entirely and directly attaches a new work request, keeping the CRM clean, accurate, and instantly actionable for the field team.

StartupLens AI | Multi-Agent Startup Validator

Personal Project | In Development

Python · FastAPI · LangChain · LangGraph · Agentic RAG · Qdrant · MCP · OpenAI · Groq · Tavily · Pydantic

- Designing a distributed AI system with 15 specialized agents across 5 parallel teams orchestrated via LangGraph StateGraph, cutting execution time from 20 minutes sequential to 4 minutes parallel using Send() fan-out primitives.
- Implementing Agentic RAG with multi-hop retrieval across 5 Qdrant vector collections, MCP servers for real-time web search and sandboxed Python execution, and Pydantic schemas enforcing structured outputs at every agent boundary.
- Building automated startup research reports with competitor analysis, investment landscape mapping, MOAT scoring, and GTM strategy, delivered via FastAPI streaming endpoint.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML5/CSS3

Generative AI: LangGraph, LangChain, LlamaIndex, Agentic RAG, MCP, OpenAI, Claude, Gemini, Groq, Hugging Face, Ollama, LLM Prompt Engineering, N8N

Frontend & Mobile: Next.js, React.js, React Native, Expo, Redux Toolkit, Zustand, React Query, Tailwind CSS, Shadcn/UI, Material UI

Backend & Cloud: Node.js, Express.js, FastAPI, GraphQL, AWS, Docker, Kubernetes, Terraform, Azure DevOps, Socket.io, Stripe Connect, OneSignal, Redis, RESTful APIs, CI/CD

Databases: PostgreSQL, MySQL, MongoDB, Qdrant, Pinecone, DynamoDB, Firestore, NeonDB

Tools & Libraries: Pydantic, Tavily, Pandas, NumPy, Prisma, Git, Postman

EDUCATION

BS Computer Science · University of Management and Technology, Lahore, Pakistan
September 2019 – August 2023

Higher Secondary School Certificate · Government College, Rajanpur, Pakistan
May 2017 – July 2019

LANGUAGES SPOKEN

English: C1 – Full professional proficiency | **Urdu:** C2 – Native