

MUHAMMAD AHMAD SIDDIQUI

Full Stack & AI Engineer

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PROFESSIONAL SUMMARY

Full Stack & AI Engineer with 2+ years of production experience building end-to-end AI-powered platforms across healthcare, fintech, real estate, and marketing technology. Specializes in RAG pipelines, LangChain agent orchestration, LLM integration, and custom ML model development alongside React, Next.js, and Python backend frameworks. Delivered 15+ client projects spanning mobile apps, multi-tenant SaaS platforms, and autonomous AI systems — with multiple products live in production and on app stores.

EXPERIENCE

Tron AI | **Full Stack & AI Engineer** | November 2024 – Present | Lahore, Pakistan

True Mortgages — *Next.js, FastAPI, LangChain, Claude (Anthropic), Pinecone, Supabase, Deepgram, GoHighLevel API, AWS ECS Fargate, n8n*

- Built an AI mortgage intelligence platform processing 15,000+ historical customer conversations (calls, SMS, emails) through a full ingestion pipeline using Deepgram for transcription, chunking, OpenAI embeddings, and Pinecone vector storage for RAG-based response generation grounded in real company communication history.
- Engineered brand voice matching by retrieving contextually similar past conversations to replicate the company's sales tone and communication style.
- Integrated GoHighLevel CRM for automated SMS and email responses, objection detection, and lead conversion analytics, with mortgage application automation extracting customer data into LOS fields via Arrive LOS.
- Implemented confidence scoring, human approval workflows, and audit logging for financial compliance, deployed on AWS ECS Fargate with n8n workflow automation and PostHog analytics.
- [Live: truemortgages.com](#)

Agentepro — *Next.js, FastAPI, LangChain, OpenAI, WhatsApp Business API, Supabase, Redis, Google Calendar API, AWS*

- Built a multi-tenant WhatsApp AI receptionist platform for healthcare clinics, engineering a LangChain agent with tool use for intent detection, real-time Google Calendar availability checking, appointment booking execution, and automated follow-up sequence triggering (24hr, 3-day, 7-day).
- Managed WhatsApp Business API webhook processing, message queuing, and full conversation state management across concurrent patient sessions.
- Designed Supabase Row-Level Security policies for strict clinic data isolation across a shared multi-tenant infrastructure with per-clinic AI configuration and custom business rules.
- [Live: agentepro.tech](#)

Creative Testing AI — *Next.js, FastAPI, LangChain, LangGraph, PostgreSQL, Stripe, AWS S3, Cloudflare R2*

- Built a synthetic audience testing SaaS platform enabling marketers to validate ad creatives against AI-simulated panels, implementing LangGraph-based orchestration pipelines with parallel audience simulation execution to deliver test results in under 5 minutes.
- Designed and implemented a Creative Effectiveness Score (CES) system combining qualitative LLM outputs with statistical confidence scoring for winner determination across A/B test variants.
- Built multi-tenant SaaS infrastructure with Stripe billing, feature gating, OAuth authentication, and secure asset delivery via Cloudflare R2 and AWS S3.

RAG Knowledge Assistant — *Next.js, FastAPI, LangChain, Pinecone, PostgreSQL, OpenAI Embeddings*

- Built a finance-domain AI platform with three isolated RAG pipelines (FP&A, Risk & Compliance, Investor Relations), each backed by a separate Pinecone index with OpenAI embeddings for domain-specific retrieval.
- Implemented citation injection so every LLM response is traceable to source documents, eliminating hallucination risk for finance-grade use cases.

- Built role-aware chat interfaces with persistent session history, live financial dashboards (revenue, AR aging, ESG KPIs), and a full admin panel with user management, RBAC, and activity logging.

Facebook Ads Automation Platform — *Next.js, FastAPI, PostgreSQL, Redis, Facebook Marketing API, Stable Diffusion, Docker*

- Built a closed-loop advertising automation system implementing a full Generate → Test → Launch → Monitor → Optimize pipeline with a self-healing campaign optimization engine that autonomously pauses underperforming ads, reallocates budgets, and scales profitable campaigns based on ROAS and CPA thresholds.
- Engineered learning-phase protection logic to prevent premature optimization decisions, integrated Stable Diffusion for AI ad creative generation, and built Redis-powered real-time performance monitoring.
- Integrated Facebook Pixel and Conversion API with deduplication for attribution accuracy, supporting multi-account agency operations with a full optimization audit trail.

FrugalFox AI — *React Native, FastAPI, PostgreSQL, Redis, AWS (EC2, ECS, S3, Lambda), Docker, GitHub Actions*

- Built and shipped a cross-platform price comparison app live on both App Store and Google Play, developing a custom computer vision model for product recognition via barcode and image scanning across 10+ retail categories.
- Built NLP-driven product matching to map scanned items to retailer databases, personalized deal recommendations based on shopping history, and RevenueCat subscription management.
- Deployed on AWS ECS with autoscaling, CloudFront CDN, and GitHub Actions CI/CD pipeline for zero-downtime updates.
- [App Store: FrugalFox AI](#)
- [Google Play: FrugalFox AI](#)

The Right Contact — *Next.js, FastAPI, PostgreSQL, Redis, AWS, GPT-4, Computer Vision*

- Built a domain-specific AI platform for optometrists combining a RAG pipeline over a structured contact lens knowledge base with a custom computer vision model for corneal topography scan analysis, outputting lens compatibility recommendations.
- Implemented natural language query interface tuned for optometry terminology, Excel-style structured data lookups, and an admin pipeline for continuous knowledge base updates.
- [Live: therightcontact.com](#)

RIAX — Financial Advisor AI Platform (Frontend) — *Next.js 16, React 19, TypeScript, Tailwind CSS 4.0, PostHog*

- Built the complete frontend for a production-grade multi-tenant financial advisory SaaS platform with complex dashboard interfaces spanning meeting intelligence, AI-generated behavioral analysis, compliance flag management, and revenue opportunity displays.
- Implemented Kanban task management with drag-and-drop (@dnd-kit), client health scoring visualizations, AI cost tracking dashboard, and full authentication UI including TOTP MFA setup, magic link flows, and team invitation workflows.
- Frontend connects to a Claude Opus 4.5 (AWS Bedrock) meeting analysis pipeline performing behavioral classification, compliance screening, and adaptive email generation.
- [Live: appriax.ai](#)

One Machine Software | **Full Stack Developer** | September 2024 – November 2024 | Lahore, Pakistan

- Built Rx-Copilot, a React-based medical coaching chatbot with a Python FastAPI backend for automated student support and AI-generated response handling.
- Contributed to an Angular-based appointment booking system with a Node.js backend, focusing on booking management APIs and user-facing interface components.

Nova Software Solution | **Frontend Developer (Internship)** | July 2024 – September 2024 | Lahore, Pakistan

- Developed a Web-OS 3.0 application using Node.js, React, and the Web-OS SDK for LG Smart TVs, managing emulator setup, service integration, and app packaging for deployment.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, TypeScript, Python, React.js, React Native, Next.js, Node.js, Django, FastAPI, Ruby on Rails (exposure)

AI & ML: LangChain, LangGraph, RAG Systems, Pinecone, Vector Databases, LLM Integration (OpenAI, Claude, Gemini), TensorFlow, PyTorch, Computer Vision, NLP, Deepgram, Stable Diffusion

Frontend: Tailwind CSS, Bootstrap, Expo, shadcn/ui, Responsive Design, PWA

Backend: RESTful APIs, PostgreSQL, Redis, Supabase, Firebase, WebSockets, Background Workers, Multi-tenant Architecture

DevOps & Cloud: AWS (EC2, ECS, S3, Lambda, Bedrock), GCP, Docker, GitHub Actions, Vercel, Cloudflare Pages, Render, Railway, Heroku

Integrations: Stripe, RevenueCat, Facebook Graph API, WhatsApp Business API, Google Calendar API, Twilio, n8n

EDUCATION

Punjab University College of Information Technology | Bachelor of Science in Computer Science |
Graduated July 2024