



ABDUL RAFE

Product-minded Full Stack AI Engineer | Growth & Product



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Profile

CS student at NUST who builds and ships AI products end to end, then learns from how real users respond. Experienced in market research, competitive analysis, and turning findings into clear recommendations. Comfortable with SQL, Python, and AI tools to speed up research and analysis. Deeply interested in generative AI, consumer products, and how people use creative tools. Based in Islamabad.

Experience

Full Stack AI Intern — Bayent Labs
Islamabad, Pakistan — Hybrid

Jun 2026 – Present

- Visited salons in person to interview owners and validate demand for an AI voice and booking agent (Voicehelm); built the data-collection form, pitch decks, and cost reports.
- Led market research and competitive analysis to guide what the team builds; turned findings into clear recommendations for leadership.
- Shipped features and internal tools across React/Next.js and Node.js, with PostgreSQL and MongoDB data layers and Python services.
- Worked closely with senior engineers on scope, code quality, and delivery timelines.

Full Stack AI Engineer — Upwork, Self-employed
Islamabad, Pakistan — Remote

May 2026 – Present

- Take client ideas from brief to launched product: scoping, building, shipping, and iterating on feedback.
- Build fast, polished web apps with React, Next.js, TypeScript, and Node.js, plus AI features using RAG, vector databases, and LLM APIs.

Skills

Product & Growth: market research, competitive analysis, user-journey thinking, written briefs and requirements

Data & AI: SQL (PostgreSQL), Python, spreadsheets, LLM APIs, RAG, AI automation

Engineering: React, Next.js, TypeScript, Node.js, Supabase, MongoDB, Three.js, GSAP

Projects

Rate NUST Cafes (Consumer Web Platform)



Supabase (PostgreSQL + Auth + RLS), GSAP, WebGL, Vercel

- Built a student-facing platform with live crowd tracking, cross-cafe price comparison, and a ratings leaderboard to give students a reason to return.
- Reached 100+ users within 24 hours of launch.
- Designed a campus-only signup (@nust.edu.pk Supabase Auth) with Row Level Security to keep ratings trusted and private.

AI Procurement Copilot (B2B AI SaaS)



Next.js, TypeScript, NestJS, Supabase (PostgreSQL + pgvector), Groq, Vercel, Render

- Built a SaaS that replaces hours of manual supplier quotation review with minutes of automated analysis.
- Used in a live pilot by a Saudi cement company for real supplier quotations.
- Extracts data from supplier PDFs, compares suppliers side by side, and flags pricing, compliance, and delivery risks with an LLM.
- Added natural-language Q&A over quotations and contracts using RAG with pgvector.

Build Link (Two-Sided Marketplace)



Next.js 14, Tailwind CSS, MongoDB, NextAuth.js, Cloudinary, Render

- Built a marketplace connecting Pakistani homeowners with contractors, covering listings, bookings, and reviews.
- Implemented authentication with protected routes and CDN image uploads for contractor profiles.

Quran & Hadith Assistant (AI / RAG Web App)



Next.js, TypeScript, Node.js, Supabase pgvector, Transformers.js, Anthropic Claude, Vercel, Render

- Built a RAG app over the full Quran (6,236 verses) and Sahih Bukhari; answers are limited to retrieved sources with exact Surah, Ayah, or Hadith citations.
- Tuned prompts to find a query’s true subject and discard superficial keyword matches.

AI News Summariser (*Desktop App, GUI and Console*)



Java 17, JavaFX 21 (FXML + CSS), Apache Maven, NewsAPI, Google Gemini API, java.net.http, org.json, MVC architecture

- Cross-platform desktop app that fetches live news via NewsAPI and generates multi-paragraph AI summaries using Google Gemini; REST calls handled with Java’s built-in `java.net.http`, JSON parsed with `org.json`.
- Structured with an MVC-like architecture (FXML views + controllers) and centralized `NewsApiService` & `GeminiService`; packaged as a JAR via the JavaFX Maven plugin.



Plotify (*C++ Console App*)

C++ (ISO C++), STL (iostream, fstream, string, iomanip), struct-based data model, fstream file persistence

- Menu-driven CLI real estate app where hosts list plots for sale and guests search, filter, and book properties based on their requirements.
- Implements a booking-to-listing matching algorithm; data persisted across sessions via fstream read/write to `plots.db.txt`.

Education

Bachelor of Computer Science	2025–2029
National University of Sciences and Technology (NUST), Islamabad, Pakistan	

Activities

Agentic AI Workshop — <i>Python, AI Agents, GitHub</i>	2025
Team workshop on agentic AI systems and multi-step reasoning; used GitHub for task assignment and collaboration.	
Fastn Hackathon — <i>AI Procurement Copilot</i>	2026
Placed 22nd out of 163 projects.	