

HASSAN JAMSHaid

Software Engineer | Full-Stack Development

Lahore, Pakistan • +92-312-4384133 • hjamshaid81@gmail.com

hassanjamshaid.tech • linkedin.com/in/hassanjamshaid10 • github.com/hassan-jamshaid10

PROFESSIONAL SUMMARY

Full-stack Software Engineer building production, multi-tenant SaaS platforms. Shipped third-party integrations (Amazon FBA/FBM, ShipHero, DataChannel, BigQuery) and end-to-end warehousing, procurement, and CRM modules across two enterprise platforms. Strong across the stack: Next.js and Vue on the frontend; Spring Boot, Node.js, FastAPI, and tRPC on the backend; PostgreSQL and BigQuery data layers. Excellent with REST APIs, microservices, and RPC-based APIs, with hands-on applied AI experience designing Agentic RAG systems. AWS Cloud Foundations certified.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL

Frontend: Next.js, React.js, Vue 3, React Native, Tailwind CSS, TanStack Query, PrimeReact

Backend: Spring Boot, Node.js, FastAPI, tRPC, Express.js

API & Architecture: REST APIs, Microservices, RPC APIs, JWT Authentication

Databases & Data: PostgreSQL, BigQuery, MongoDB, MySQL, Kysely, Supabase, pgvector

AI / ML: RAG & Agentic RAG, LangChain, LlamaIndex, DSPy, ChromaDB, RAGAS, HuggingFace, Prompt Engineering

Cloud & Tools: AWS (Foundations), Docker, Git, Vercel, Render, Zod, Sentry, Vitest, Postman

PROFESSIONAL EXPERIENCE

Junior Software Developer, Dataropes.ai

Nov 2025 – Present

Lahore, Pakistan | Multi-tenant SaaS platforms for e-commerce operations and business management

Ecom Central: E-commerce Operations Platform (Next.js 15, TypeScript, tRPC v11, PostgreSQL, Kysely, BigQuery)

- Integrated Amazon as a marketplace datasource with FBA and FBM fulfillment support, and built the DataChannel third-party integration feeding store and sales data into the platform via BigQuery.
- Unified multiple warehouse datasources (including MyFlex and ShipHero-managed warehouses) into a single BigQuery reporting layer for cross-entity inventory analytics.
- Owned the end-to-end warehousing module: inbound shipments, inventory movements, receiving, box packaging, shipping-label printing, and purchase-shipment workflows.
- Built the ShipHero API integration for real-time inventory syncing and warehouse storage management across tenants.

Jessica Nelson: Interior Design Business Management Platform (Spring Boot, Vue 3, PostgreSQL)

- Developed the CRM module covering lead management, bids and bid history, and client communications for the platform's core Lead → Bid → Project → Procurement → Invoice workflow.
- Built a client email-template system integrated with SMTP settings and the client response portal.
- Developing the procurement module: procurement workspaces that snapshot project rooms and allowance line items into procurement sheets, with vendor/catalogue management, inventory tracking, and line-item status tracking.

Full-Stack Intern, NetSol Technologies

Jul 2024 – Sep 2024

Lahore, Pakistan

- Built frontend and backend features with React and Spring Boot, integrating REST APIs across application layers within enterprise sprint cycles and code-review workflows.

PROJECTS

Launch Pulse: AI Business Idea Evaluation & Market Simulation Platform | Final Year Project

2025 – 2026

Next.js, TypeScript, tRPC, FastAPI, React Native, Supabase PostgreSQL + pgvector, ChromaDB, LlamaIndex, DSPy, RAGAS

- Designed the complete system architecture single-handedly (web architecture, data model, and Agentic RAG pipeline) for a deployed SaaS platform, built in a team of 4, that evaluates business ideas with success scores, SWOT analyses, and market simulations.
- Architected an Agentic RAG engine that dispatches parallel live-data retrieval across 8 external channels and routes enriched context through 4 isolated DSPy reasoning layers before generation.

- Built a dual-LLM pipeline (Qwen 2.5 7B + DeepSeek R1 Distill Qwen 7B) with an LLM-as-judge selection step and a RAGAS grounding gate that penalizes outputs below a 0.8 faithfulness threshold.
- Deployed as microservices: Next.js app on Vercel, FastAPI ML service on Render, and a React Native mobile client sharing a JWT-authenticated backend.

Codebase AI: AI Code Explainer
| [GitHub](#)
2025

FastAPI, LangChain, RAG, ChromaDB, HuggingFace, React, Vite

- Built a RAG tool that loads any repository, chunks and embeds the code, and answers natural-language questions about the codebase via an LLM, using LangChain orchestration with ChromaDB vector search.

Trade an Idea: Idea Sharing Platform
| [GitHub](#) | [Live](#)
2024

React.js, Node.js, Express.js, MySQL

- Full-stack platform for submitting and discussing innovation ideas mapped to UN SDGs, with OTP authentication and an AI originality checker using a fine-tuned LiteLlama model to flag duplicate submissions.

Campus Nest: Hostel Management System
| [Live](#)
2024

React, Node.js, Express.js, MongoDB

- MERN stack hostel management app with room allocation, student registration, payment tracking, and maintenance request workflows.

EDUCATION

B.Sc. Computer Science, University of Central Punjab (UCP)
2022 – 2026

Lahore, Pakistan | *Graduated 2026*

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Cloud Foundations**, Amazon Web Services
- **Runner-Up, WebVerse Hackathon (2026)**: placed 2nd of 35 teams in a 5-hour frontend engineering sprint.
- **Top 10, SOFTEC '26 Web Hackathon**: finished in the top 10 at the national web hackathon held at FAST-NUCES Lahore.
- **8th Place, FCCU XR AI Hackathon**: finished 8th among 50 teams.

LEADERSHIP & VOLUNTEERING

- **Webmaster, IEEE Computer Society, UCP Chapter (2024 – 2026)**: built the official chapter website; volunteered at IEEE conferences INMIC, HITE, and TFT.
- **Tech & Web Lead, Pakistan Arab Youth Organization (2023 – 2026)**: built and maintained payo.org.pk and led all tech initiatives for the organization.
- **Director Media, UCP Welfare Society, Esaar-e-Ramadan (2023 – 2026)**: led media and outreach for Ramadan Iftar Dastarkhwan community drives.
- **Sub-Core Member (Logistics), UCP Taakra '24 & '26**: supported event logistics for UCP's annual flagship festival across two editions.