

Muhammad Mushahid

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SUMMARY

AI-focused full-stack developer and final-year Computer Science student who ships production LLM applications end to end. Deployed 10+ products spanning RAG chatbots, OCR pipelines, real-time collaborative systems, and blockchain dApps using Python/FastAPI, TypeScript/Next.js, and PostgreSQL. Hackathon winner (IBA ProBattle).

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, C, SQL, Solidity

AI / ML: Artificial Intelligence, Machine Learning Fundamentals, LLM API Integration (OpenAI, Gemini, Groq, OpenRouter, DeepSeek), Retrieval-Augmented Generation (RAG), AI Agents, Prompt Engineering, OCR / Document Ingestion, Streaming Inference

Backend & Data: FastAPI, Node.js, Express.js, REST APIs, WebSockets, JWT, Google OAuth 2.0, PostgreSQL, MySQL, SQLite, Prisma,

Supabase

Frontend & Cloud: React 19, Next.js (App Router), Tailwind CSS, TanStack Query, Git, Vercel, Pusher, Yjs (CRDT), Hardhat, Ethers.js

PROJECTS

StandupBot - AI Async Standup Platform

Iterate '26 Hackathon

React 19, TypeScript, TanStack Router/Query, FastAPI, Python, SQLite, OpenRouter, Google OAuth

- Engineered an async standup tool collecting 3 structured answers per teammate in under 90 seconds, replacing synchronous daily meetings for distributed teams
- Developed an LLM brief generator reading all updates jointly to surface cross-person dependencies, blockers, and missing members, with real-time streaming

Fluxnote - Real-Time Collaborative AI Canvas

DevDay Hackathon

Next.js 16, TypeScript, Yjs, WebSockets, Node.js, Express, Supabase, Prisma, Groq

- Built an infinite collaborative canvas with Yjs CRDT sync and live multi-user cursors over WebSockets for conflict-free concurrent editing
- Integrated Groq-powered intent detection that auto-classifies notes into decisions, questions, and tasks; designed node-level role-based access control (RBAC)

KhataLens - AI Ledger Digitization for Small Businesses

DHA Suffa Hackathon

React 18, TypeScript, FastAPI, Python, SQLite, Supabase Auth, Gemini 2.0 Flash, OpenRouter

- Built an OCR pipeline using Gemini 2.0 Flash to extract names, amounts, and payment statuses from photos of handwritten ledgerbooks, eliminating manual entry for shopkeepers
- Developed a bilingual RAG chatbot answering ledger queries in English and Roman Urdu over a local-first store keeping all records on-device

Graft - AI Exam Generator (EdTech Platform)

Personal Project

React, TypeScript, Node.js, Express, PostgreSQL, Prisma, OpenRouter (DeepSeek), JWT, Google OAuth

- Built a multi-role platform for teachers and administrators with approval-gated authentication, Google OAuth, and email OTP verification
- Integrated AI question generation with OCR-backed PDF import and a hierarchical question bank covering the full exam lifecycle to print export

ACHIEVEMENTS

- Winner - IBA ProBattle Vibe Coding Challenge**, IBA CS Society | Placed 1st, delivering 4 functional tasks in 4 hours
- WireFluid '26** - Built ChainPass, an ERC-721 NFT ticketing dApp with on-chain resale caps and royalty routing, deployed end-to-end to testnet
- ProCom '26, FAST NUCES** - Solved a complex MySQL problem set in a fully offline 3-hour competitive environment

EDUCATION

Sindh Madressatul Islam University, Karachi, Pakistan

Sep 2023 - Jun 2027 (Expected)

Bachelor of Science in Computer Science | CGPA: 3.4 / 4.00

Certification: Python for Data Science, AI & Development - IBM (Coursera)