

# MUHAMMAD YAQOOB

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## SUMMARY

Full Stack Engineer with hands-on experience building AI-integrated web applications using React, Next.js, Node.js, and LangChain. Delivered systems real-time collaborative tools. Ranked 17th of 100+ teams at Hack for Humanity 2025. Pursuing B.E. Software Engineering at Mehran University (GPA: 3.54). I build messy system first then clean

## EDUCATION

**Bachelor of Engineering in Software Engineering** **Expected Dec 2026**  
*Mehran University of Engineering & Technology* *GPA: 3.54 / 4.0*  
**Relevant coursework:** Data Structures & Algorithms, Operating Systems, Database Systems, Computer Networks, Software Design Patterns, Web Engineering

## EXPERIENCE

**Software Engineer — Intern** **Aug 2025 – Dec**  
*DS Digitals, German Digital Agency* *Remote*

- Developed and maintained full-stack web applications for international business clients using React, Node.js, and PostgreSQL, ensuring robust error handling.
- Built multilingual, responsive UIs with Tailwind CSS that improved client engagement through better UX and faster page load times.
- Collaborated with European stakeholders to gather requirements, iterate on designs, and ship features on schedule in an agile environment.
- Deployed projects on Vercel with custom domain configuration and proper Google Search Console indexing.

## PROJECTS

**CodeFlow — Real-Time Collaborative IDE** | *Node.js, Socket.IO, WebRTC, React, Monaco Editor* View

- Built a browser-based collaborative editor with Monaco Editor and Socket.IO for real-time multi-user code sync; integrated WebRTC voice chat for in-session team communication.
- Designed event-driven backend architecture using Redis Streams for high-frequency editor events with low latency; deployed on Heroku with horizontal scaling support.

**Zhurnuty — AI Document Intelligence Platform** | *Next.js 15, LangChain, Gemini AI, PostgreSQL, Clerk* View

- Built an AI-powered SaaS for PDF Q&A using (LangChain + Gemini AI) with optimized chunking and vector retrieval for context-aware responses.
- Implemented multi-provider auth via Clerk (Google, GitHub, email) and deployed on Vercel with SSR for fast time-to-first-byte.

**SHADOW — Anonymous Proximity Chat** | *Next.js, Socket.IO, MongoDB, Redis* View

- Developed a privacy-first anonymous chat platform with location-based room discovery; users join via randomized session IDs with no account required.
- Implemented real-time messaging with Socket.IO, 24-hour message expiry via MongoDB TTL indexes, and Redis for presence tracking without storing PII.

## SKILLS

<b>Languages:</b>	JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL
<b>Frameworks:</b>	React, Next.js, Node.js, Express.js, Tailwind CSS, Socket.IO
<b>Databases:</b>	PostgreSQL, MongoDB, Redis, Mongoose ODM, Query Optimization
<b>Auth:</b>	JWT, OAuth 2.0, NextAuth.js, Clerk, bcrypt, Session Management
<b>Tools:</b>	Git, Docker, Vercel, Netlify, Heroku, WebRTC, GraphQL, REST APIs

## ACHIEVEMENTS & EXTRACURRICULARS

- Hack for Humanity 2025** — Ranked 17th out of 1000+ competing teams (national-level hackathon).
- Delivered end-to-end production applications for European clients as a solo contract engineer.
- Active open-source contributor; all projects publicly available on GitHub with live deployments.