

Imtiyaz Ali Khan

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SUMMARY

Backend-focused Full Stack Developer experienced in building production-grade systems with Node.js, TypeScript, and modern databases. Experienced in integrating LLMs into event-driven pipelines. Passionate about real-time systems, scalable architecture, and applying AI to solve practical problems.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, C++, Java, C
Backend	Node.js, Express.js, Hono, WebSocket, WebRTC, Socket.io, REST APIs
AI / LLM	LangChain, Google Gemini API, Prompt Engineering, RAG pipelines
Databases	PostgreSQL, MongoDB, Redis, Prisma ORM, MySQL, Kafka, BullMQ
DevOps	Docker, CI/CD, Cloudflare Workers, Git & GitHub
Frontend	React, Next.js, Tailwind CSS, HTML, CSS

PROJECTS

CodeSync – Real-time Collaborative IDE | **Tech:** Next.js, TypeScript, Node.js, Socket.io, WebRTC, Prisma, PostgreSQL, Docker [\[GitHub\]](#)

- Engineered a browser-based collaborative IDE synced with local VS Code via a custom extension, enabling real-time multi-user code editing with sub-100ms latency using Socket.io.
- Designed a 'Propose → Review → Apply' diff system with WebRTC HD video/audio calls and an Excalidraw-powered shared whiteboard for seamless pair programming sessions.
- Integrated AI-powered code insights (inline explanations, test generation, performance analysis) via LLM APIs, adding intelligent assistance directly into live coding sessions.
- Structured as a Turborepo monorepo with shared TypeScript packages across 3 services (web app, Node.js backend, VS Code extension), cutting cross-package type errors to zero.

CodeMate – LeetCode Pair Programming Extension | **Tech:** Chrome Extension MV3, Node.js, Socket.io, WebRTC, Redis, Next.js, TypeScript, Docker [\[GitHub\]](#)

- Built a Chrome extension displaying live presence counts on every LeetCode problem, enabling instant partner matchmaking — reducing time-to-pair from minutes to under 5 seconds.
- Used Redis sorted sets with TTL auto-expiry for accurate per-question presence tracking with Socket.io managing real-time room state across concurrent users.
- Delivered WebRTC peer-to-peer audio/video calls and a Shadow DOM in-extension chat UI with zero style conflicts on LeetCode pages, plus a Next.js dashboard with live leaderboard.

EmailBot – AI-Powered Email Triage to WhatsApp | **Tech:** Node.js, TypeScript, Next.js, Express, BullMQ, Redis, PostgreSQL, Prisma, Gemini, WhatsApp API [\[GitHub\]](#)

- Polls Gmail and Outlook via OAuth2, scores each email 1–10 using Google Gemini, and forwards only high-priority messages to WhatsApp — reducing actionable email noise by ~70%.
- Designed a fault-tolerant async pipeline with BullMQ + Redis retries, ensuring zero message loss; secured endpoints with Helmet.js, Zod validation, and rate limiting.

ACHIEVEMENTS

- Solved 400+ LeetCode problems (Data Structures & Algorithms: graphs, DP, system design) with consistent daily practice.
- Strong foundation in Computer Networks, DBMS, Operating Systems, and Computer Architecture with GATE-level problem-solving depth.
- Currently learning LangChain, RAG pipelines, and LLM agent frameworks (LangGraph, pgvector) to build AI-integrated backend systems.

EDUCATION

Bachelor of Technology (CSE) | Government Engineering College, Ajmer | Aug 2023 – Jun 2027