

Mudassar Hussain

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EXPERIENCE

Full-Stack Software Engineer

Jun 2024 – Sep 2025

SMF Digital

Lahore

- Developed 10+ production React applications for local businesses, contributing to sales increases of up to 15%
- Built and deployed an automated order-management dashboard that routes incoming delivery orders to the correct shop, reducing manual dispatch workload interaction by ~40%
- Provisioned and configured AWS EC2 infrastructure for a custom admin panel, streamlining hosting, domain management, and deployments

Freelance Software Engineer

Sep 2023 – Jun 2024

Remote

- Built and maintained 15+ websites for marketing/e-commerce and booking sites using React / Next.js / Node.js, PostgreSQL, payments via Stripe and achieved >90 Lighthouse performance scores on optimized builds
- Developed secure REST APIs with latency under 200 ms (on mid-tier VPS / EC2 instances)
- Advised clients on hosting, caching, and CI/CD adoption; reduced average change deployment time by ~60%

PROJECTS

CodeCollab | React, Typescript, Monaco Editor, YJS (CRDT), Express, PostgreSQL, Websocket, Docker, Cloudflare R2

[Live Preview](#)

- Engineered a full-stack, browser-based collaborative Web IDE (React, TypeScript, Monaco Editor, XTerm.js, Zustand) with real-time multi-user editing, synchronized cursors, selections, chat, and terminal streaming via Yjs (CRDT) and WebSockets
- Built a secure, multi-language code execution platform by orchestrating isolated, resource-governed Docker containers (dockerode), enforcing CPU/memory limits and session isolation to ensure safe, performant execution
- Designed and implemented a scalable backend (Node.js, Express, Prisma, PostgreSQL, JWT auth) and integrated Cloudflare R2 (S3-compatible) for durable, cost-efficient project/file storage, modeling complex user–project–room–message relationships

WellAppoint | React, Zustand, Node.js, Express, PostgreSQL, Prisma, JWT

[Live Preview](#)

- Developed healthcare appointment platform with RBAC-based access control (patients vs doctors) and secure JWT session flow
- Designed RESTful API layer enabling CRUD for appointments, medical records, and user profiles
- Built a responsive application using React with Zustand for state management, delivering a dynamic user interface with consistent application state

TECHNICAL SKILLS

Frontend: JavaScript, TypeScript, React, Next.js, Zustand, Material-UI, Redux

Backend: Node.js, Express.js, REST, JWT Auth, RBAC, Websockets, CRDT (Yjs), Prisma ORM

Database: MySQL, PostgreSQL, MongoDB

DevOps: Docker, AWS, Google Cloud Platform, Cloudflare R2

Testing: Jest, Apache JMeter

Tools: Git/GitHub, Postman, VS Code

EDUCATION & CERTIFICATIONS

University of Sargodha

Associate Degree in Computer Science

Sargodha, PK

Aug 2022 – May 2024

Mastermind Mindset

Certification in Digital Marketing, SEO & Affiliate Marketing

PK

Sep 2022 – Feb 2023