

MUHAMMAD ZAEEM AHMAD

Full-Stack MERN Developer

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LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Computer Science student and full-stack developer specializing in the MERN stack, with hands-on freelance experience building and deploying production web applications for local clients. Seeking part-time junior developer roles alongside ongoing studies. Comfortable across the stack: designing secure REST APIs and database schemas, building responsive React interfaces, and integrating generative AI (Gemini, OpenRouter) into real products. Currently expanding into network security and machine learning alongside coursework.

TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, Three.js, Redux Toolkit, TypeScript, Tailwind CSS, Vite, GSAP, HTML5/CSS3, JavaScript (ES6+)
- **Backend & APIs:** Node.js, Express.js, Flask (Python), REST API design, JWT, OAuth
- **Databases & Cloud:** MongoDB, SQLite, ImageKit, Vercel
- **AI/LLM Integration:** Google Gemini API, OpenRouter API, prompt engineering
- **Security & Networking:** RSA, AES, TCP/UDP, Subnetting, Cisco Packet Tracer (VLANs)
- **Tools & Practices:** Git/GitHub, Postman, VS Code, Agile methodologies

EXPERIENCE

Freelance Full-Stack Developer — Self-Employed

Nov 2025 – Present

Sahiwal, Pakistan

- Owned the end-to-end development process from requirements gathering to launch, successfully delivering and deploying multiple MERN-stack web applications for local businesses and clients.
- Optimized query patterns and designed efficient MongoDB schemas to maintain stable application performance and low latency as project data scaled.
- Implemented JWT-based authentication and role-based access control (RBAC) to securely enforce per-user authorization across all REST API routes.
- Engineered custom retry and back-off logic for Gemini and OpenRouter integrations, ensuring uninterrupted AI feature availability despite third-party API rate limits.
- Architected global state management using Redux Toolkit to persist authentication and application state, significantly reducing unnecessary component re-renders.
- Independently managed project scope and milestones, consistently delivering features that aligned precisely with client specifications.

FEATURED PROJECTS

AI Website Builder | *React, Vite, Node.js, Express, MongoDB, Redux Toolkit*

2025 – 2026

- Engineered a prompt-driven generation pipeline using React and Node.js, allowing users to convert plain-text prompts into fully functional, responsive web layouts.
- Built an in-browser live preview architecture with Redux Toolkit to provide real-time, synchronized editing feedback.
- Developed a dedicated tracking system tied to user accounts to accurately enforce credit and quota limits.
- Designed scalable MongoDB schemas for reliable project storage, enabling one-click saving, versioning, and deployment of user-generated sites.

JARVIS — Text & Voice AI Assistant with WhatsApp Automation | *Python, Flask, SQLite, Selenium, PyAutoGUI, Web Speech API*

2025

- Integrated the Web Speech API with a Python/Flask backend to support seamless hands-free and text-based interactions.
- Automated WhatsApp communications using Selenium and PyAutoGUI, allowing the assistant to execute calls, video calls, and text messages on command.
- Implemented SQLite-based logging to track past sessions, ensuring consistent recall of previous user commands and interactions.

Lumina Studio — AI Image Canvas | *React, TypeScript, Express.js, ImageKit, Gemini Image API* **2025 – 2026**

- Constructed a modular image-generation canvas utilizing the Gemini Image API to produce high-fidelity design assets from text prompts.
- Configured ImageKit-based compression pipelines to reduce media storage overhead and significantly accelerate asset loading times.
- Deployed custom rate-limiting Express middleware to maintain platform stability and consistent uptime during high-traffic periods.

EDUCATION

COMSATS University Islamabad — B.S. Computer Science **May 2024 – Jul 2028 (Expected)**
Sahiwal, Pakistan | **CGPA: 3.73/4.0**

- **Relevant coursework:** Data Structures, Analysis of Algorithms, OOP, Database Systems, Computer Networks, Software Engineering, Information Security.
- Achieved a 4.0/4.0 GPA in 3rd semester, including top marks in Data Structures and Object-Oriented Programming.

CERTIFICATIONS

- Next.js App Router Fundamentals — Vercel
- Python Core Programming — Coursera