

MUHAMMAD SAAD KHAN

IT Enthusiast | BS IET Student | Full-Stack & Self-Hosting Explorer

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SUMMARY

BS Information Engineering Technology student with hands-on experience in full-stack development, AI automation, and building complete self-hosted systems from the ground up. Proven ability to design and deploy real-world web applications, set up resilient home server stacks, and automate complex workflows using no-code tools like n8n. Focused on practicality, problem-solving, and learning by doing — not just following tutorials.

EDUCATION

Bachelor of Science in Information Engineering Technology **2024 - Present**

University of Lahore, Pakistan

Intermediate in ICS - Physics **2021 - 2023**

Punjab Group of Colleges

WORK EXPERIENCE

Nexium - Remote Full Stack Developer Intern **1st July - 6th August**

- Built a blog summarizer that scrapes articles, uses AI for summarization, and auto-translates to Urdu.
- Designed the full stack from API to UI, handled data deduplication, and containerized everything for deployment.

SKILLS

- Web App Development:** Comfortable building **full-stack** apps with modern frontend frameworks and custom backend APIs. Experienced in handling auth flows, database design, and responsive UI layouts.
- AI Integration & Automation:** Built workflows using **n8n** and integrated AI services like Gemini to automate tasks like image recognition, text generation, and smart content creation.
- Self-Hosting & DevOps:** Deployed and maintained Docker-based stacks on a personal Linux server. Set up automated media downloads, file syncing, game server, and remote access with VPNs.
- Tools & Environments:** Comfortable working across modern dev environments using tools like Next.js, Node.js, Express, Mongoose, and n8n for full-stack and automation work. Experienced with Vercel for frontend deployment and Render for backend, Ubuntu Server for self-hosting, and daily usage of SSH, Git, GitHub, Postman, VS Code, and GitHub Copilot for efficient development and debugging.

PROJECTS

- AuraLearn – AI Teaching Platform:** Built a real-time AI learning app with voice-based tutoring using VAPI AI, Supabase, and Clerk (Auth + Billing). Designed a responsive Next.js + Tailwind UI with personalized companions, subscriptions, and progress tracking.
- Culinary Canvas:** Full-stack AI-powered recipe platform that lets users upload food images or ingredients to generate complete recipes using Google Gemini AI. Features include random recipe generator, user dashboards, and smart image handling via Cloudinary.
- Nexium – Blog Scraper & Summarizer:** Web application that scrapes article content from blog URLs, summarizes it using Gemini AI, and auto-translates to Urdu via MyMemory API. Backend prevents duplicate entries and stores data in MongoDB. Includes a responsive UI (Next.js) with dark mode toggle and real-time feedback. Deployed via Docker and designed for low-latency performance.