

# 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	1 <sup>st</sup> June - 1 <sup>st</sup> September
<ul style="list-style-type: none"><li>Built a blog summarizer that scrapes articles, uses AI for summarization, and auto-translates to Urdu.</li><li>Designed the full stack from API to UI, handled data deduplication, and containerized everything for deployment.</li></ul>	

## 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

- 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.
- MoviFy:** Frontend movie discovery platform powered by the TMDB API. Allows users to browse trending movies, search by title, and filter by genre. Built with React and styled using Tailwind CSS, it features a responsive grid layout, hover effects, and clean mobile-first design. Uses Appwrite as a backend-as-a-service for a custom trending movies feature.