

Abdul Rahman

Software Engineer

📍 Lahore, Pakistan ✉️ abdulrahman.abd.dev@gmail.com ☎️ +92 320 1002771
🔗 abdxdev.vercel.app 🌐 github.com/abdxdev in linkedin.com/in/abdxdev

Summary

Software engineer with hands-on experience building backend systems, desktop applications, and developer tools, passionate about automation, clean code, and creating solutions that improve productivity.

Education

University of Engineering and Technology, Lahore

Sept 2023 — April 2027 (Expected)

BS in Computer Science

- CGPA 3.51/4.0

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, C, C++, SQL, C#.
Frameworks and Libraries: Django, Flask, Next.js, React, Node.js, Express, Flet, .NET.
DevOps and Tools: Docker, Git, GitHub, CI/CD, Vercel, Azure, REST APIs.
Databases: PostgreSQL, MySQL, MongoDB, SQLite, Microsoft SQL Server.
Web Technologies: HTML, CSS, Tailwind CSS, WebSockets.
Soft Skills: Leadership, Observation, Creative Thinking, Focused Work Ethic

Experience

Backend Developer

2023 — Present

Freelance (Self Employed)

- Developed backend systems for clients using Django, Flask, and .NET, including REST APIs, web applications, and automation scripts.

Graphic Designer

2021 — 2023

Freelance (Self Employed)

- Directed and designed marketing materials for clients, including UI/UX design, branding, and social media content.

Projects

VSCode Extensions & Integrations

- **KaTeX Python Solver** (Python, pip): Built a pip-installable package that embeds Python inside LaTeX equations, enabling live computation, parameterized templates, and symbolic solving for model training docs and technical reports.
- **Notes Maker** (Python, LaTeX): Built a Markdown-to-LaTeX PDF tool supporting diagrams, live code execution, custom syntax, and easy VSCode integration, producing publication-quality documents and academic notes.
- **AI Regex Search** (TypeScript, VSCode API, Gemini): Built a VS Code extension that lets users generate regular expressions from natural language and insert them directly into the search tool.
- **AI LaTeX Helper** (TypeScript, VSCode API, Gemini): Created an extension that converts plain English descriptions into LaTeX equations, simplifying the process of writing math in LaTeX.

Desktop Applications

- **Context Menu Plugin Manager** (Python, Flet): Developed a desktop app that allows users to manage and extend Windows context menus with custom Python plugins for enhanced directory actions.
- **AMOS** (C#, WinUI 3): Designed a modern restaurant management system enabling seamless order processing and administration for customers, managers, and admins.

Web Applications

- **WhatsApp Bot Framework** (JavaScript, Next.js, Supabase): Built a multi-tenant SaaS WhatsApp bot framework featuring JSON-driven command definitions, role-based access control, interactive prompts, and pluggable service architecture for scalable chat automation.
- **Screenshoots** (JavaScript, Next.js): Built a tool to preview websites in device frames and generate styled screenshots and isometric galleries for polished portfolio and marketing assets.
- **Virtual Student** (TypeScript, Next.js): Developed a prototype SaaS featuring an intelligent agent that planned study schedules, summarized material, and automated learning tasks to boost productivity.