

Abdul Rahman

Software Engineer

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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

BS in Computer Science

Sept 2023 — April 2027 (Expected)

- 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

Freelance (Self Employed)

2023 — Present

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

Graphic Designer

Freelance (Self Employed)

2021 — 2023

- 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.