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   *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:	Next.js, MERN Stack, Django, Flutter, .NET.
Tools and Technologies:	Supabase, Azure, Docker, GitHub Workflows, Vercel.
Databases:	PostgreSQL, MongoDB, MySQL, SQLite.
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

- **Markdown LaTeX PDF Builder** (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.
- **Markdown Math Solver** (Python): 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.
- **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.
- **Odoo Lens** (TypeScript, Next.js): Built a web app that augments Odoo ERP with advanced analytics, search, and management tools for business insights.