Abdul Rahman

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Education

University of Engineering and Technology, Lahore *Sept 2023 - Present*
BS in Computer Science
- CGPA: 3.6/4.0

Technical Skills

Programming Languages:	Python, C++, C, JavaScript, TypeScript, SQL, C#.
Frameworks and Libraries:	Django, Flask, Streamlit, .NET, Tkinter, Reflex, Flet, React, Next.js, Tailwind CSS.
DevOps Tools:	Docker, Git, GitHub, GitLab, Vercel, Render, Azure.
Databases:	PostgreSQL, MySQL, SQLite, Microsoft SQL Server, Access.
Markup and Style:	HTML, CSS, Markdown, LaTeX.

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
- **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. ↗
- **10x Pretender** (TypeScript, VSCode API): Developed a VS Code extension that simulates realistic typing from clipboard or AI-generated code, making code demos and presentations more engaging. ↗
- **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. ↗
- **Prize Bond Finder** (Python): Created a user-friendly desktop tool for efficiently managing, searching, and tracking prize bonds with a simple interface. ↗

Web Applications
- **Odoo Lens** (TypeScript, Next.js): Built a web app that augments Odoo ERP with advanced analytics, search, and management tools for business insights. ↗
- **Markdown Badge Generator** (Python, Streamlit): Developed a web tool for instantly generating and customizing markdown badges for project READMEs. ↗
- **Recurrence Relation Solver** (Python, Streamlit, Sympy): Built a web tool for solving and visualizing mathematical recurrence relations using symbolic computation. ↗

Utilities & Tools
- **Terminal Based Rich Text Editor** (C++): Engineered a fast terminal editor featuring autosuggestions, undo/redo, and customizable shortcuts for efficient text editing. ↗
- **Console Utility** (C++): Developed a C++ library offering advanced console text formatting and cursor control utilities for terminal applications. ↗