Muhammad Uzair

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Summary

I'm a Software Engineer passionate about AI and Python, with over 3+ years of experience building intelligent, scalable solutions. I specialize in modern AI tools like CrewAI and RAG, and use frameworks like LangChain and Flask to create robust applications. Being detail oriented and highly responsible, I take pride in getting quality work done on time, mostly because I love creating technology that makes a real difference in people's lives.
Portfolio: https://portoflio-main.vercel.app/
Book a Meeting: https://cal.com/muhammad-uzair-mg18yz

Work Experience

Spiral Lab PVT LTD Lahore, Pakistan
AI Engineer 2025 - Present

- Architect and maintain scalable backend systems for AI-powered products, including REST APIs, data pipelines, and third-party service integrations.
- Optimize RAG and LLM workflows for performance, reliability, and production deployment using Python, Flask, Supabase, and MCP-based tooling.
- Develop custom MCP (Model Context Protocol) servers connecting complex AI agents with live external web tools and backend services.

TechZology PVT LTD Lahore, Pakistan
Backend Engine 2024 - 2025

- Designed and developed modern full-stack web applications, improving client application performance and system scalability.
- Implemented robust RESTful APIs, modern database schema designs, and seamless user interface components.

Intelliscence PVT LTD Lahore, Pakistan
Associate Software Engineer 2023 - 2024

- Engineered modular web services and scalable front-end interfaces according to client project specifications.
- Participated in code reviews, automated testing, and cross-functional agile development sprints.

SEEBIZ PVT LTD Lahore, Pakistan
Trainee Software Engineer 2022 - 2023

- Developed and maintained dynamic web applications across front-end and back-end layers, ensuring usability and scalability.
- Translated complex stakeholder requirements into production-ready code delivered strictly on schedule.

Education

Virtual University Of Lahore, Lahore, Pakistan 2021 - 2025
BSc in Information Technology

- At Virtual University of Pakistan, pursuing BS in IT, I developed websites, AI-based projects, and actively engaged with the VULMS platform. I also assisted fellow students with full stack and AI development projects, enhancing both technical and collaboration skills **through practical academic and team-based experiences**

Projects

Contributed Projectd

AI Research Assistant | Multi-Agent RAG System

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  - Built a Multi-Agent AI Research Assistant using LangGraph, RAG, FAISS, FastAPI, and Next.js.
  - Developed Researcher, Summarizer, Critic, and Editor agents for document retrieval, summarization, validation, and response refinement.
  - Implemented multi-document Q&A supporting PDF, DOCX, HTML, and TXT files with semantic search using FAISS.
  - Integrated persistent conversation memory with SQLite for contextual follow-up queries and session management.

GraphRAG Interactive Knowledge Intelligence Platform

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  - Built an interactive GraphRAG vs. Vanilla RAG platform using Python, FastAPI, React, Microsoft Azure AI Foundry, Azure AI Search, and GraphRAG.
  - Implemented knowledge graph extraction, community detection, and multi-hop retrieval to improve contextual reasoning across multiple documents.
  - Developed an interactive 3D knowledge graph visualization using Three.js and react-force-graph-3d, enabling users to explore entities and relationships.

Mantis AI – Multi-Agent Social Media Automation Platform

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  - Developed a multi-agent AI orchestration platform using Python, FastAPI, LangGraph, and LLMs to automate end-to-end social media marketing workflows.
  - Designed stateful agent workflows for trend analysis, content generation, safety validation, growth prediction, and social distribution.
  - Implemented Human-in-the-Loop (HITL) approval workflows and semantic safety guardrails for controlled AI-generated content.

Practise Project

DuckDuckGo MCP Server

- Built a lightweight MCP server using Python to enable real-time DuckDuckGo search integration for AI assistants.

Travel Chat Assistant

- Developed an AI chatbot using Groq to share travel stories and offer personalized trip recommendations.

Video Script Automation Tool

- Created an AI tool that analyzes videos and auto-generates detailed, accurate scripts from the content.

Intelligent Chat Assistant

- Built an AI chatbot that instantly connects users and handles customer queries directly through a website chat.

AI Email Clone System

- Developed an AI system using Groq LLM to read emails and auto-generate smart replies saved as drafts.

AI Hand Sign Detection System

- Built an AI model to detect hand gestures, measure distance, and track session time in real-time.

Context-Aware AI Chat System
- Developed an AI chat system like ChatGPT that understands context and generates intelligent, human-like responses.

Supabase CRUD App with Streamlit
- Built a Streamlit app using Supabase to perform create, read, update, and delete operations with ease.

Groq Personality Chatbot
- Created a Streamlit chatbot using Groq LLaMA 3 that offers context-aware chats with multiple personalities.

Live Profile

Europe Job Portal
- https://europejobportal.com

Insta Print
- https://instaprint.pk

Edz Tech
- https://edzetech.com

Right Way Logistics
- https://rwl.com.pk

Aisha Aziz CEO aluxytech.com
- https://aluxytech.com

Attache Admin Portal
- https://attache.sa

Story Book
- https://yourownstorybook.com

Jobs In USA
- https://jobsinusa.us

Omni Post
- https://omnipost-one.vercel.app

AI Tool Website
- https://iatool.online

Skills

Frontend & Web: HTML/CSS, Bootstrap, JavaScript, React Js
Backend & Databases: Node Js, MongoDB, Django, Flask, SQL, Supabase
AI & Automation: MCP Server, LangGraph, CrewAI, RAG
Programming Languages: Python, Javascript
Platforms: Upwork, Fiverr, Replit
Languages: English