

UMAIR MEHMOOD

+92-322-7976313 , umairmehmoodapi1995@gmail.com, Lahore Pakistan
[Github](#) - [Linkedin](#)

SUMMARY

Experienced software engineer with expertise in backend development, specializing in Python, Django, and FastAPI. Known for enhancing system performance, building scalable cloud infrastructures, and developing AI-driven applications. Demonstrates strong leadership by mentoring teams, conducting code reviews, and driving projects that improve user experience and operational efficiency.

Skills & Tools

Python, Django Rest Framework, Celery, Redis, FastAPI, Chainlit, LangChain, LangGraph, JavaScript, ReAct LLM agents, Custom GPT, React, Docker TypeScript, HTML, CSS, Full-stack, Git, Prompt Engineering, Chatbots, LLMs, AWS Amazon Web Services, Agile and scrum methodologies.

Experience

Cogentlabs, Pakistan - *Software Engineer* (January 2022 - PRESENT)

- Spearheaded full-cycle project development, managing a team of developers and achieving a 40% increase in team productivity through streamlined workflows and mentorship.
- Reduced operational time by 85% (from 5 minutes to 45 seconds) by implementing efficient search functionality and similarity search algorithms on third-party services.
- Improved application performance on production servers by 80% through optimized ORM queries and advanced indexing techniques.
- Deployed scalable applications across AWS, Google Cloud, and Digital Ocean using Docker, ensuring seamless production environments.
- Designed and developed RESTful APIs for web and mobile platforms, significantly enhancing cross-platform functionality and user experience.
- Introduced robust testing strategies with Pytest, covering unit, integration, and functional tests, leading to a 30% reduction in production bugs.
- Developed asynchronous task management solutions using Celery and Redis, boosting application responsiveness by 40%.
- Created RAG-based chatbot applications leveraging LLMs, improving customer interaction efficiency by 50%, and implemented backend solutions for a crypto chatbot handling Solana transactions, token swaps, and advanced trading features.
- Developed advanced chatbots using LangGraph and LangChain's ReAct agents, integrating memory management solutions for handling longer context, which improved decision-making capabilities and enhanced user interactions.
- Delivered a healthcare application with features like user quizzes, DNA test result dashboards, and a chatbot offering genetic result insights and medication guidance (Pharmacogenetics).
- Conducted thorough code reviews, achieving a 40% improvement in code quality, while mentoring junior developers to strengthen the team's technical capabilities.

Education

Virtual University of Pakistan - *BSCS* August 2018 - April 2022

Open Source Contributions

Contributed to LangChain, A cutting-edge library to build applications with LLMs (Large Language models).