Aman Shahzad

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Professional Summary

Final-year Computer Science student with hands-on experience in full-stack development, DevOps, and AI integration. Proficient in React.js, Next.js, Node.js, PostgreSQL, Docker, Kubernetes, and LLMs like GPT and LLaMA. Passionate about developing scalable, high-performance applications and contributing to AI-driven solutions.

Education

BS Computer Science   2021-2025
FAST National University of Computer and Emerging Sciences (NUCES)
CGPA: 3.48

Technical Skills

Languages: C++, JavaScript, Python, C#
Frontend: HTML, CSS, Next.js, React.js, WordPress
Backend: Node.js, Express.js, Python (Flask)
Databases & **Tools:** PostgreSQL, MongoDB, MySQL, Oracle, Github, Figma, Microsoft Visual Studio, VS Code
DevOps: Docker, Kubernetes, GitHub Actions, Terraform
AI/ML: Transformers, LSTM, RNN, CNN, ViTs

Experience

Internship (MERN Stack Development) Shopilam, Pakistan   *(July 2024 - November 2024)*
- Contributed to developing full-stack web applications using MERN stack, focusing on responsive UIs and optimized RESTful APIs.
- Participated in code reviews, debugging, and collaborated with the team to deliver efficient, high-quality solutions on time.

Teaching Assistant

- CS3001 Computer Networks
- CS2001 Data Structures

Projects

IELTS Mastery (Final Year Project) (https://github.com/AmanShahzad1/ieltsmastery-main)

- Developing an AI-powered IELTS prep platform using Next.js, Node.js, and LLaMA to provide real-time feedback and personalized study plans.
- Integrates LLMs to simulate tutor-like evaluation for writing and speaking tasks, enhancing accessibility and learning outcomes.

Clinical Diagnosis RAG Chat (https://github.com/AmanShahzad1/Clinical_Diagnosis_RAG)

- Built a Retrieval-Augmented Generation (RAG) chatbot using LangChain, FAISS, and LLaMA-3.
- Retrieves and synthesizes medical insights from clinical documents, providing intelligent, context-aware responses.

Roman Urdu Poetry Generator (https://github.com/AmanShahzad1/Roman-Urdu_PoetryGenerator)

- Created a deep learning-based poetry generator using LSTM in PyTorch to generate structured Roman Urdu verses.
- Handled text preprocessing, model training, and deployed an interactive Streamlit web app for user interaction.

YouTube Video Summarizer (https://github.com/AmanShahzad1/Youtube_Summarizer)

- Developed a Whisper + LLaMA 2 powered app to transcribe and summarize YouTube videos with natural language summaries.
- Integrated Haystack pipelines and deployed the solution via Streamlit for a smooth user experience.

FarmToday E-commerce Platform (https://github.com/AmanShahzad1/FarmToday-Project)

- Developed a full-featured agricultural e-commerce platform with secure user authentication, product catalog, and responsive design.
- Developed the backend with Node.js and Express.js, and the frontend with HTML for a seamless user experience.

Certifications

- Dean's List Certificate (2023, 2024)
- Teaching Assistant Certificate (2024, 2025)
- Certificate of Student Excellence (Punjab College)

Volunteer Engagement

Usher (Job Fair 2024)
- Awarded Best Usher 2024.
- Coordinated volunteer duties and ensured smooth event operations.