Aman Shahzad

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Professional Summary

Highly motivated Bachelor of Science in Computer Science student with a 3.48 CGPA and hands-on experience in **full-stack development, DevOps, and** g**enerative AI**. Proficient in Docker, Kubernetes, Terraform, and CI/CD pipelines**,** with a strong foundation in generative AI and large language models (LLMs)**,** including fine-tuning deep learning architectures such as RNNs, LSTMs, and Transformers**.** Passionate about developing scalable, high-performance applications and contributing to AI-driven solutions. Demonstrates strong problem-solving abilities, a commitment to writing high-quality code, and a keen focus on creating intuitive and responsive user interfaces**.** Additionally, possesses leadership and teaching experience**,** emphasizing collaboration, mentorship, and project management**.** Eager to leverage technical expertise and innovative thinking to contribute to the fast-paced tech industry and drive meaningful advancements.

Education

BS in Computer Science
FAST-NUCES (CFD Campus)
08/2021 - Present | CGPA: 3.48

FSc (Pre-Engineering)
Punjab College of Science, Faisalabad
08/2019 - 02/2021 | Marks: 1055/1100

Matriculation
La Salle High School, Faisalabad
06/2017 - 05/2019 | Marks: 998/1100

Experience

Internship (MERN Stack Development)
Shopilam 07/2024 – 11/2024

- Collaborated in the development of full-stack web applications using MongoDB, Express.js, React.js, and Node.js.
- Built and optimized RESTful APIs for seamless communication between frontend and backend systems.
- Enhanced user experience by designing and implementing responsive and interactive user interfaces.
- Participated in code reviews, debugging, and performance optimization to ensure application efficiency.
- Worked closely with a team to deliver high-quality solutions within deadlines.

Internship (Front-end Development)
Interns Pakistan 06/2024 – 08/2024

- Designed and developed responsive user interfaces using HTML, CSS, and JavaScript.
- Created and managed websites using WordPress, customizing themes and plugins for client requirements.
- Collaborated with backend teams to integrate dynamic content and ensure seamless functionality.
- Focused on delivering visually appealing designs while maintaining responsive and user-friendly layouts.

Teaching Assistant
FAST-NUCES 01/2024 – Present | 09/2024 – 01/2025 | 02/2024 – 06/2024

- Currently assisting for the course Information Security.
- Assisted in the Computer Networks course, supervising 51 students.
- Assisted in the Data Structures and Algorithms course, supervising 30 students.
- Responsible for designing and creating assignments and quizzes. Moreover, conducting viva for the assignments and projects is also one of my responsibilities.
- **Contact:** Dr. Anwar Shah | Dr. Umar Aftab

Usher (Job Fair)
FAST-NUCES | 04/2023 - 04/2024

- Awarded Best Usher 2024.
- Coordinated volunteer duties and ensured smooth event operations.

Chief Prefect
La Salle High School | 04/2020 - 03/2021

- Selected from a batch of 500 students for leadership excellence.

Skills

- **Programming Languages:** C++, C#, HTML, CSS, JavaScript, TypeScript, Python, Bash Scripting
- **Frameworks, Libraries & Tools:** React.js, Next.js, Node.js, Express.js, MongoDB, PostGreSQL, Bootstrap, WordPress
- **Tools and Platforms:** Figma, Github, Visual Studio, VS Code, Cisco Packet Tracer
- **DevOps Tools**: Docker, Kubernetes, Terraform
- **Generative AI & LLMs:** Familiar with deep learning models (RNN, LSTM, Transformers) and their applications. Experience in fine-tuning LLMs like GPT and LLaMA models.
- **Soft Skills:** Project Management, Leadership, Communication, Problem Solving, Mathematics

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Projects

IELTS Mastery Learning Platform (Final Year Project) | 09/2024 - Present

- Front-end development using Next JS
- Back-end development using Node JS, Python
- Database: PostgreSQL
- Description: Developing an advanced IELTS preparation platform with a personalized dashboard and generative AI tools for real-time writing and speaking feedback.

Roman Urdu Poetry Generator | 02/2025

- Deep learning-based poetry generation using LSTM in PyTorch.
- Tools: Python, PyTorch, Streamlit, Google Colab
- Description: Developed an AI-powered poetry generator that creates structured Roman Urdu poetry using a word-level LSTM model**.** Implemented data preprocessing, tokenization, and text generation techniques**,** and deployed an interactive Streamlit web app for user-friendly poetry generation.

YouTube Video Summarizer | 02/2025

- AI-driven summarization of YouTube videos using Whisper and Llama 2.
- Tools: Python, Haystack, Whisper, Llama 2, Streamlit, yt-dlp.
- Description: Developed an AI-powered application that transcribes and summarizes YouTube videos using Whisper for speech-to-text conversion and Llama 2 for natural language summarization. Integrated Haystack's pipeline for efficient processing and deployed an interactive Streamlit-based UI for seamless user experience.

Pseudocode to C++ Converter | 03/2025

- Transformer-based Seq2Seq model for converting pseudocode into C++ code.
- Tools: Python, PyTorch, Streamlit, Google Colab
- Description: Developed a deep learning model from scratch using a Transformer architecture to translate pseudocode into C++ code. Implemented dataset preprocessing, tokenization, model training, and inference. Deployed an interactive Streamlit web app for real-time pseudocode conversion.

Student Management System | 04/2023

- Designed a Windows Forms application for managing student records using C# and Oracle DB.

Inter-City Communication Network | 11/2023

- Implemented routing protocols and VLAN in Cisco Packet Tracer.

Certifications

- Teacher's Assistant Certificate (2024, 2025)
- Dean's List Certificates (2023, 2024)
- Best Usher 2024 (Job Fair)
- Certificate of Student Excellence, Punjab College

Interests

- Basketball
- Driving
- Music