Raja Alian Anwar

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Education

FAST-NUCES, Islamabad   *2021 – 2025*
BS in Computer Science
- Major Courses: Web Programming, DevOps, Generative AI, NLP, Computer Vision, InfoSec.

Fauji Foundation College, Rawalpindi   *2018 – 2020*
F.Sc. (Pre-Engineering)

Fauji Foundation School, Rawalpindi   *2016 – 2018*
Matric (Computer Science)

Projects

SmartTutor – Final Year Project   *2024 – 2025*
- Tutor-student matching using preferences & AI-driven sentiment analysis
- Real-time chat, tutor-created communities, collaborative learning tools
- Tools: Node.js, Express, MongoDB, HTML, CSS, Python, Socket.IO

Wardrobe Manager – MERN Stack   *2024*
- Manages clothing, tracks last worn dates, suggests outfit combinations
- Tools: React, Node.js, MongoDB, Express

Flex LMS – Database Project   *2023*
- Scalable LMS supporting students, courses, chat, and notifications
- Tools: MySQL, PHP, JS

VirtuWear – GAN-Based Virtual Try-On   *2025*
- Built virtual try-on system using HR-VITON GAN with UNet
- Improved realism and reduced warping over baseline
- Tools: PyTorch, TensorFlow, OpenCV

Timetable Scheduler – AI Project   *2024*
- Genetic algorithm-based schedule optimization tool
- Tools: Python, Pandas, NumPy

Story2Audio – NLP Course Project   *2025*
- Microservice that generates expressive audio from stories using local NLP and TTS models.
- Features gRPC API, Gradio UI, Docker deployment, and text enhancement with Falcon-RW-1B.
- Tools: Python, PyTorch, Transformers, Kokoro-82M, gRPC, Docker, Gradio

Experience

Lab Demonstrator / Teaching Assistant   *Islamabad*
FAST-NUCES   *2022 – 2025*
- Guided labs in OOP, Data Structures, OS, COAL
- Evaluated work and mentored students in Computer Networks

Skills & Tools

Programming Languages: Python, C++, Java, JavaScript, SQL, HTML, CSS
Web & AI Frameworks: MERN Stack, Flask, Transformers, HR-VITON, REST APIs
Libraries & Dev Tools: PyTorch, TensorFlow, Hugging Face, Docker, Kubernetes
Utilities & Platforms: Jupyter, Git, Cisco Packet Tracer, VS Code
Soft Skills: Leadership, Communication, Teamwork, Mentorship

Activities & Interests

- ○ Volunteer, FAST Athletic Society (2024)
- ○ Played in inter-village and university cricket tournaments
- ○ Hobbies: Cricket, Travelling