

Raja Huzaifa Qadeer Dhanyal

Full-Stack AI Engineer

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ABOUT

I am an AI developer and a 2025 Software Engineering graduate of COMSATS University Islamabad. Since graduating, I have worked independently, collaborating with a few friends on AI tools that automate video creation for YouTube channels. I work mostly in Python on computer vision, LLM pipelines and backend APIs, and I am open to AI and Python developer roles.

EXPERIENCE

AI Developer

Aug 2025 – Present

Independent | Islamabad, Pakistan

- Design, build and run video workflow-automation systems that produce videos for YouTube channels.
- Built footage sourcing and motion graphics as standalone APIs so they can be reused outside a single pipeline.
- Self-host video-generation models on rented GPUs to cut third-party API costs; currently optimizing inference.

PROJECTS

MotionGen AI | Remotion, LLMs, text-to-speech

- Turns a script into a finished video: storyboards, voiceover, timing, footage and motion graphics.
- Rendered scenes are reviewed before the final render, and any scene can be regenerated on its own.
- Thumbnail and voiceover generation also work as standalone tools.

Source IT | FastAPI, job queueing, AWS

- Replaced about a day of manual b-roll sourcing per video; later became MotionGen AI's sourcing layer.
- Searches Pexels, Pixabay, licensed search results, Internet Archive and NARA, with attribution per clip.
- An optimized job queue and partial downloads keep bandwidth and storage use low when collecting short clips.

Motion Graphics API | Remotion, React, TypeScript, Hyper Frames

- 80+ individually tested components: maps, typography, parallax, diagrams, charts and camera movement.
- Exposed as an API so any pipeline can render with it; MotionGen AI uses it with footage from Source IT.

Hoop Master (Final Year Project) | Python, MediaPipe Pose, OpenCV, PyTorch, Flask

- AI basketball training app built by a team of two, with a React Native mobile app and a Next.js admin panel.
- Built the computer-vision and Python backend, using MediaPipe Pose to measure form in practice videos.
- Drill analysis scores form and suggests corrections; shooting analysis returns an annotated video.
- Analysis runs as a separate Flask microservice alongside the Node.js and Express API.

EDUCATION

BS Software Engineering | COMSATS University Islamabad

2021 – 2025

CGPA 3.24 | Final year project: Hoop Master

FSc | Bahria College E-8, Islamabad | 92.3%

2019 – 2021

SKILLS

Languages: Python, TypeScript, JavaScript, Java

AI and video: PyTorch, OpenCV, MediaPipe, LLM integration, text-to-speech, FFmpeg, Remotion, Hyper Frames

Backend and data: Flask, FastAPI, Node.js, Express, REST APIs, MongoDB, MySQL, AWS, RunPod

Frontend and tools: React, React Native, Next.js, Git, GitHub, VS Code, Figma, Premiere Pro, Claude Code, Codex

Software engineering: Requirements, design and architecture, quality engineering, project management

CERTIFICATIONS

Google IT Automation with Python | Coursera

Nov 2023 – Feb 2024