

# Muhammad Jawad

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## ACHIEVEMENTS & HONORS

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- Competed in 5+ international hackathons, winning **1st place** with [Story Weave](#), a Generative AI wellness app.
- Scored **140/160** in the [Duolingo English Test](#).
- Solved all **10/10** problems in [Harvard CS50x Puzzle Day 2026](#).
- Ranked **172 globally** in [UC Berkeley CALICO Informatics Competition](#).
- Solved all 12 challenges in [Advent of Code 2025](#) using Python.
- Solved **100+** Data Structures and Algorithms problems on [LeetCode](#).
- Selected **twice** as Section Leader in [Stanford Code in Place](#), mentoring students and leading weekly Python sessions.
- Co-founded and served as Vice President of the [Computing Students Society](#), organizing 5+ technical events.

## EDUCATION

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### University of Peshawar

Bachelor of Science in Computer Science | CGPA: 3.7/4.0

Peshawar, Pakistan

2021 – 2025

**Relevant Coursework:** Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Database Systems, Software Engineering, Operating Systems, Probability & Statistics, Calculus, Linear Algebra

## FINAL YEAR PROJECT

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**ShortlistPro** | AI-Powered Recruitment Automation Platform | [GitHub](#)

2025

- Built a distributed recruitment platform automating resume parsing, candidate matching, and interview scheduling.
- Engineered 5 LangChain/Gemini agents with Pydantic-enforced structured outputs for multi-stage AI processing.
- Integrated ElevenLabs voice AI for real-time candidate screening with transcript storage and automated scoring.
- Delivered a full-stack dashboard with real-time stats, OTP auth, notification system, and human handoff pipeline.

**Tech Stack:** Python, Django, FastAPI, PostgreSQL, Google Gemini, LangChain, ElevenLabs, Zoom API, Gmail SMTP, Tailwind CSS

## INTERNATIONAL HACKATHON PROJECTS

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**StoryWeave** | Multimodal AI Wellness Story Generator | [1st Place](#) | [GitHub](#)

2025

- Built a full-stack AI platform generating personalized wellness narratives from a single user prompt.
- Engineered a 6-stage LangGraph pipeline combining Gemini story generation with ElevenLabs TTS and music.
- Implemented FFprobe duration detection and FFmpeg audio mixing for precise narration–music synchronization.

**Tech Stack:** Python, FastAPI, Google Gemini, ElevenLabs, FFmpeg, LangChain, Next.js, Tailwind CSS

**AutoMotion** | GitHub-to-Video AI Explainer System | [GitHub](#)

2026

- Built an end-to-end pipeline converting a GitHub repositories into a fully narrated MP4 explainer video.
- Engineered a stateful 8-stage LangGraph pipeline for LLM-based repositories analysis, scripting, and TTS narration.
- Built frame-accurate narration sync by computing TTS clip durations before video rendering.

**Tech Stack:** Python, FastAPI, LangGraph, LangChain, Remotion, ElevenLabs, WebSockets, FFmpeg, TypeScript, Next.js, Docker

**GeoLens** | Environmental Risk Intelligence Platform | [GitHub](#)

2026

- Built an environmental risk platform profiling global cities using data from 7 public APIs.
- Designed a 6-agent LangGraph pipeline with deterministic scoring and hallucination-checked LLM narration.
- Developed a multi-city comparison engine with preset scoring profiles and adjustable per-factor risk weights.

**Tech Stack:** Python, FastAPI, LangGraph, Qwen3 LLM, Featherless.ai, Pandas, NumPy, Recharts, Next.js

## PROFESSIONAL EXPERIENCE

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### DeepCognishann Software Services

Software Engineering Intern

Peshawar, Pakistan

Jan 2025 – Apr 2025

- Fine-tuned TinyLlama using Unsloth with LoRA and QLoRA on constrained GPU environments.
- Built DP-SGD training workflows via Opacus with gradient clipping and noise injection for privacy preservation.

## TEACHING EXPERIENCE

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### Stanford University — Code in Place

Section Leader (Mentor)

Remote  
Apr 2026 – Present

- Mentor students one-on-one in Python debugging, structured problem-solving, and concept clarification.

### Computing Students Society — AI Bootcamp

AI Bootcamp Instructor | [Lectures](#)

Peshawar, Pakistan  
Jun 2025 – Aug 2025

- Taught Python, CNNs, YOLO, LangChain, and RAG to 40+ beginners who built and deployed AI systems.

### Stanford University — Code in Place

Section Leader | [Certificate](#)

Remote  
Apr 2025 – May 2025

- Led weekly Python sessions for 10+ students covering fundamentals, debugging, and code reviews.

## TECHNICAL SKILLS

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<b>Languages &amp; Frameworks</b>	Python, SQL, Django, FastAPI, Pydantic
<b>Machine Learning &amp; DL</b>	PyTorch, TensorFlow, Keras, Scikit-learn
<b>Generative AI &amp; LLM Systems</b>	LangChain, LangGraph, HuggingFace Transformers, Unsloth
<b>AI Techniques</b>	Retrieval-Augmented Generation (RAG), Agentic Workflows, Fine-Tuning
<b>Databases</b>	PostgreSQL, MySQL, SQLite, FAISS, ChromaDB
<b>Tools &amp; Infrastructure</b>	Docker, Git/GitHub, $\LaTeX$ , DigitalOcean

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- Machine Learning Specialization [Certificate](#)
- AI Programming with Python [Certificate](#)
- Data Science Bootcamp Training [Certificate](#)
- Artificial Intelligence Bootcamp Training [Certificate](#)
- Generative AI Application Developer Certificate [Certificate](#)