

JUNAID ASRAR

Islamabad, Pakistan — +92-339-2220951 — junaidasrar04@gmail.com — linkedin.com/in/junaid-asrar — github.com/MJAsrar

SUMMARY

AI Engineer specializing in LLM-powered systems, RAG pipelines, and agentic AI workflows. Built and deployed production AI applications including a live AI career platform and a multi-agent writing system at scale. Strong competitive programming background with ICPC Regional qualification and All-Pakistan Speed Programming 2nd place. Worked with multiple international clients for production grade AI applications

TECHNICAL SKILLS

AI/ML: LangChain, LangGraph, RAG Pipelines, Agentic AI, GraphRAG, Vector Databases (FAISS, ChromaDB), SentenceTransformers, Prompt Engineering, Speech-to-Text (Whisper), Speaker Diarization, PyTorch, TensorFlow, scikit-learn, OpenCV, YOLO
Backend: FastAPI, Node.js, Express.js, REST APIs, WebSockets, Celery, Redis, Playwright (Browser Automation), FFmpeg
Frontend: React.js, Next.js, Tailwind CSS, Redux
Databases / Cloud: PostgreSQL, MongoDB, AWS, GCP, Firebase, Supabase, Docker, Vercel
Languages: Python, JavaScript, TypeScript, C++, SQL

EXPERIENCE

- AI Engineer** Jun 2026 – Present
Taraz Technologies Islamabad, Pakistan
- Engineered an AI meeting agent that autonomously joins Microsoft Teams, Zoom, and Google Meet calls via browser automation, capturing audio, video, screen shares, and chat across the full session.
 - Built a transcription and speaker-diarization layer that segments recordings by speaker and aligns dialogue to timestamps for accurate attribution of who spoke and when.
 - Developed a computer vision pipeline that monitors shared screens and extracts high-value frames such as slides, diagrams, and handwritten notes.
 - Built an automated post-meeting pipeline generating structured DOCX, PDF, and Markdown summaries (TL;DR, participants, action items); architected for horizontal scaling to thousands of concurrent instances and deployed in production across the organization.
- AI Systems Engineer (ESOP Track)** Aug 2025 – May 2026
Chrio PVT LTD Islamabad, Pakistan
- Contributed to a real-time computer vision pipeline achieving 99.5% ball-detection accuracy at 30 FPS using YOLO, Detectron2, and SORT tracking algorithms.
 - Developed features for CritRate, an AI-powered cricket analytics platform with real-time match intelligence.
 - Built across a multi-product ecosystem (Chrio Atlas, CritRate, Chrio Flow) deployed on GCP Cloud Run with Docker and CI/CD pipelines.
 - Integrated Gemini AI into Chrio Atlas for automated recruitment workflows and organizational operations.
- Full Stack Engineering Intern** Jun 2024 – Aug 2024
SDD, NASTP Islamabad, Pakistan
- Assisted in developing a Hospital Management System using Angular and PostgreSQL/MySQL.
 - Built and integrated RESTful APIs for cross-module data flow across scheduling, records, and billing components.

PROJECTS

- CoWriteIA — FYP** *FastAPI, LangGraph, GraphRAG, MongoDB, Redis, Celery, SentenceTransformers* Jun 2025 – Apr 2026
- Designed a GraphRAG-based knowledge system using LangGraph multi-agent pipelines for context-aware narrative generation, enabling intelligent cross-document reasoning across 100+ documents.
 - Built a multi-agent orchestration layer with LangGraph, coordinating specialised agents for indexing, retrieval, and generation; implemented semantic search with SentenceTransformers and ChromaDB vector store.
 - Developed a parallel task processing pipeline using FastAPI, Celery, and Redis, significantly reducing document indexing latency through async orchestration.
- ProfileAI (profyleai.com)** *Next.js, FastAPI, LangGraph, RAG, MongoDB, Python, Chrome Extension* Jan 2025 – Present
- Built a production RAG pipeline using LangGraph agents, vector embeddings, and semantic retrieval to power AI-driven resume and cover letter generation from live job descriptions.
 - Developed a Chrome extension for real-time job data extraction; engineered AI interview features with speech-to-text, text-to-speech, and facial expression analysis.
 - Deployed full-stack platform serving real users with end-to-end AI document generation requiring minimal user input.
- AI Autonomous Racing Bot** *Python, Computer Vision, Control Algorithms, Telemetry* Jan 2025 – Jun 2025
- Built an autonomous racing bot using computer vision and control algorithms to process live physics telemetry, translating raw data into real-time steering, throttle, and braking inputs.
- BioScout — Biodiversity Tracking Application** *React, TypeScript, FastAPI, Leaflet, Material-UI*
- Built a full-stack biodiversity tracking platform with AI-powered species identification, interactive map-based observation logging, and an NLP-driven Q&A system for local wildlife queries.

EDUCATION & CERTIFICATIONS

- Bachelor of Science in Computer Science** Aug 2022 – Jun 2026
FAST, National University of Computer and Emerging Sciences Islamabad, Pakistan
- Qualified for ICPC Regional 2025; 2nd Place, All-Pakistan Speed Programming Competition.
 - President, FAST Computing Society; OOP Lab Demonstrator & Teaching Assistant.
- Certifications:** AI Agents in LangGraph (DeepLearning.AI); LangChain: Chat with Your Data (DeepLearning.AI); Supervised Machine Learning: Regression & Classification (DeepLearning.AI); Ethical Hacking & Social Engineering (Udemy)