REHAN KHALIL AHMED

AI/ML Engineer | Full-Stack Developer

Karachi, Pakistan | rehankhalil2017@gmail.com | +92-318-1690632 | linkedin.com/in/rehan-khalil-ahmed

PROFESSIONAL SUMMARY

Computer Science graduate with hands-on experience building full-stack AI applications spanning computer vision, retrieval-augmented generation, and 3D web platforms. Proven track record delivering production-style projects end to end from model integration to deployment combined with real-world experience in sales and client-facing operations. Seeking an AI/ML Engineering or Software Development role to apply strong problem-solving and rapid-execution skills.

TECHNICAL SKILLS

Programming & Systems: Python, C++, C#, SQL, Git, Linux

AI & Computer Vision: OpenCV, TrOCR, PaddleOCR, NLLB-200, Hugging Face, PyTorch, TensorFlow, LangChain, RAG Architectures, MediaPipe

Web & Application Development: JavaScript, Flask, Three.js, Firebase, Firestore, Netlify, Railway, Cloudflare (Pages/R2)

Business & Leadership: Freight Brokerage, Sales Strategy, Project Management, Team Leadership, Client Relations

WORK EXPERIENCE

Sales Representative | *Owaim Corp* 2024 – 2025

- Negotiated and secured competitive freight logistics deals between shippers and commercial carriers.
- Managed end-to-end shipment coordination and resolved client supply-chain issues to protect account retention.

Software Development Intern | *CodSoft Company* 2023 – 2024

- Developed and optimized C++ applications to improve execution performance and runtime efficiency.
- Designed algorithms to solve complex data challenges and participated in code reviews to ensure industry-standard quality.

PROJECTS

- **Modelixir – AI-Powered 3D Design Platform (Final Year Project):** Full-stack, browser-based platform (Three.js, Flask, Firebase, Cloudflare) enabling text-to-3D model generation, interactive interior design, and AI virtual try-on; exhibited as FYP and live at **modelixir.site**.
- **Urdu OCR & Translation Pipeline:** Built an image-to-text pipeline using OpenCV for layout analysis, TrOCR for Urdu script recognition, and NLLB-200 for English translation.
- **Custom PDF-Based RAG System:** Built a Python tool from scratch that processes PDF text embeddings and uses a custom Retrieval-Augmented Generation architecture to answer document queries accurately.
- **DocMind / SecureRAG:** Fully local, multi-user retrieval-augmented generation system using Flask, ChromaDB, Ollama (Llama 3.2), LangChain, and a cross-encoder reranker.

EDUCATION

Bachelor of Science in Computer Science | *Sir Syed University of Engineering and Technology* 2022 – Present

- GPA: 3.2 / 4.0

CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning with Python — IBM (via Coursera)
- CCNA: Introduction to Networks
- Letter of Appreciation — Director of eGames, SMEC '26, Sir Syed University of Engineering and Technology
- Letter of Appreciation — Star of the Event (Valorant), SMEC '25, Sir Syed University of Engineering and Technology
- Certificate of Participation — Best Semester Year Project, Sir Syed University of Engineering and Technology