

SYED ARHUM HUSSAIN

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SUMMARY

Results-driven AI/ML Full Stack Backend Developer with advanced expertise in Python, Golang, Django, and FastAPI. Proven track record in designing and deploying scalable web applications and AI integrations, including building cutting-edge Custom AI Voice Agents. Adept at leveraging LLM/OCR technologies, optimizing backend performance, and collaborating in cross-functional teams to drive project success.

EXPERIENCE

1) *Arc Inventador, Machine Learning Engineer (Oct 2025)*

- **AI/ML Development:** Developed and fine-tuned Large Language Models (LLMs) and OCR models, achieving 95% accuracy in data extraction tasks and deploying solutions that processed data 80% faster than previous methods.
- **Custom AI Agent & RAG Implementation:** Built custom AI Voice Agents and Retrieval Augmented Generation (RAG) systems using LangChain, improving agent response time by 40% and increasing information retrieval accuracy to over 90%.
- **MLOps & Deployment:** Streamlined the MLOps lifecycle by implementing Docker and Kubeflow, reducing model deployment time by 50% and ensuring a 99.9% uptime for deployed services.
- **Backend Engineering & Integration:** Utilized Go and FastAPI to build high-performance, resilient backends for ML models, handling a 25% increase in concurrent user requests without performance degradation.

2) *Let's Grow More, Full Stack Developer (Jun 2024 - Jun 2025)*

- Designed and deployed AI-powered chatbots using LangChain RAG pipelines integrated with FAISS and ChromaDB vector databases, processing 10K+ daily customer queries with a 90% resolution improvement through OpenAI API integration
- Developed scalable backend systems using Python, FastAPI, and Pydantic, reducing response times by 65% and streamlining developer onboarding through comprehensive API documentation with Swagger UI
- Built production-ready Django REST Framework microservices with JWT authentication and role-based access control, achieving an 85% reduction in unauthorized access incidents across distributed systems

EDUCATION

DHA SUFFA UNIVERSITY

Bachelor of Science in Computer Science • Jul 2021 - Jul 2025

LICENSES & CERTIFICATIONS

Generative AI and LLMs: Architecture and Data Preparation

Google • <https://www.coursera.org/account/accomplishments/verify/PL084OTSTBKS> •

introduction to RAG

Duke University • <https://www.coursera.org/account/accomplishments/verify/342MEG4I4S5I> •

AI Agent Fundamentals

Databricks • <https://credentials.databricks.com/bf9355c6-7412-48f8-af67-5c4b703fbaa0#acc.AWf3> •

SKILLS

Python • GO Lang • FASTAPI • Django REST Framework • Pytorch • RAG • LangChain • PostgreSQL • SQL • Docker • TensorFlow • Next.js • GitLab CI/CD • DataBricks • GCP • AWS