

SYED AMMAR BILAL SHAH

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Professional Summary

AI/ML Engineer specializing in Large Language Models, Agentic RAG systems, and multi-agent frameworks. Built industry-grade automation pipelines for regulatory compliance and scalable web applications serving multiple users. Eager to apply expertise in LLM orchestration and multi-agent systems to solve complex real-world problems.

Education

FAST National University (NUCES)

Bachelor of Computer Science — CGPA: 3.48

- 3× Dean's List Holder for consistent academic excellence

Karachi, Pakistan
Expected May 2026

Work Experience

SAYNT AI

AI Architect Engineer

Jan 2026 - Present
Karachi, Pakistan

- Architected and deployed production-grade Multi-Agent AI systems for international clients, designing end-to-end workflows with complex state-management, memory management and autonomous decision-making logic.
- Directed a team of AI developers to implement complex Agentic workflows, conducting rigorous design reviews to prevent technical drift and maintain system integrity throughout the development lifecycle.
- Optimized AI system performance and reliability by balancing latency and cost-efficiency, while architecting robust failure-containment strategies and AIOps monitoring for mission-critical deployments.

ITANZ Private Limited

Data Engineering Intern

Jul 2025 – Aug 2025
Karachi, Pakistan

- Engineered robust ETL processes using PL/SQL, facilitating structured migration and transformation of critical business data
- Developed interactive dashboards and pixel-perfect reports in Oracle Analytics Cloud, translating complex datasets into actionable business intelligence
- Automated critical dataset scheduling and reporting workflows, enhancing operational efficiency and reducing manual errors

Projects

Dossier Automation for Herbion | LangChain, RAG, LLM Orchestration

Industry Project

- Engineered an end-to-end Agentic RAG system using LangChain and LLM orchestration to automate generation of complex regulatory dossiers
- Designed and deployed modular ML pipelines for automated document retrieval, intelligent summarization, and compliance drafting, reducing dossier preparation time by over 90%
- Integrated with diverse enterprise data sources to ensure comprehensive and accurate data synthesis for compliance reporting

CodeGuard AI — Automated PR Review System | FastAPI, LangGraph, React, Supabase, Redis

- Built a multi-agent code review platform processing GitHub PRs with 3 parallel AI agents (Logic, Security, Quality), achieving 138 passing tests with 100% coverage
- Architected LangGraph-based supervisor orchestrating concurrent agent execution, reducing review latency by 65% compared to sequential processing
- Implemented Redis-backed job queue with rate limiting (15 RPM) and HMAC-SHA256 webhook verification, handling 500+ daily PR events

AI Research Assistant | Multi-Agent Framework, RAG, LangChain

- Architected a multi-agent framework leveraging RAG and LangChain to automate end-to-end ML research workflows from data ingestion to model evaluation
- Implemented dynamic task planning capabilities enabling specialized agents to autonomously execute model inference, evaluation, and result caching
- Unified retrieval-augmented reasoning, summarization, and adaptive decision-making into a cohesive system

Technical Skills

Languages: Python, C++, JavaScript, SQL, PL/SQL

AI/ML Frameworks: PyTorch, TensorFlow, Scikit-learn, LangChain, Langgraph, OpenCV, Pandas, NumPy

Databases: Oracle DB, PostgreSQL

Web & Cloud: AWS, Oracle Analytics Cloud, Docker, React.js, Tailwind CSS, HTML, CSS