# Shiwani T.

Karachi, Sindh, Pakistan
thouranishiwani@gmail.com | +92 333 7305750 | LinkedIn

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## SUMMARY

BSCS graduate with a strong foundation in computer science, OOP, and AI-focused software development. Interested in designing and implementing scalable machine learning and LLM-based systems. Skilled in LangChain, LangGraph, RAG, and model evaluation tools like LangSmith and LangFuse. Dedicated to building reliable, efficient, and well-structured AI solutions.

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## WORK EXPERIENCE

### Junior AI Engineer — Z360 LLC

*(Aug 2025 - Oct 2025, Remote)*

- Developed and optimized LLM-based AI agents using LangChain and LangGraph.
- Implemented agent tracing, monitoring, and evaluation using LangSmith and LangFuse.
- Collaborated with engineers on AI observability, evaluations, and model reliability improvements.
- Contributed to a text-to-speech project and debugging multi-agent workflows.

### AI Trainer — Outlier AI

*(Dec 2023 - Feb 2025, Remote, UK)*

- Labeled, reviewed, and evaluated data for coding and STEM domains to improve AI model reasoning.
- Worked on quality assurance of AI model outputs and provided structured feedback for retraining.
- Collaborated remotely with cross-functional teams through documentation and review platforms.

### Intern — Headstarter AI

*(Jun 2024 - Aug 2024, Remote)*

- Assisted in building AI prototypes integrating agentic reasoning and automation features.
- Collaborated in small remote teams on coding challenges, AI experimentation, and workflow design.

### Web Development Intern — Ismmart Group of Industries

*(Sep 2023 - Jul 2024, Karachi)*

- Developed Java-based modules following OOP design principles and team-based coding practices.
- Learned collaborative version control and software development lifecycle fundamentals.

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## PROJECTS

### Support Ticket Agent Using LangGraph and RAG

- Built a ticket classification and response agent using LangGraph and RAG.
- Integrated multi-step classification and human escalation for rejected outputs.
- Used Ollama Mistral for response generation and LangGraph Studio for testing.

### GitHub Crawler Pipeline

- Developed a scalable data crawler using GitHub's GraphQL API and PostgreSQL to gather star counts for 100,000 repositories. Designed a flexible schema for continuous updates, implemented rate-limit handling, and automated the pipeline with GitHub Actions and containerized Postgres services.

### X-Reportify (Medical Imaging)

- Developed a system using YOLO for anomaly detection and BioGPT for report generation.
- Fine-tuned models on a domain-specific dataset to improve accuracy and context understanding.

### Sales Agent Using Google ADK

- Designed a conversational sales assistant using LLMs and Google ADK for product-related queries.
- Tested response accuracy and implemented feedback mechanisms for improvement.

### Spotify Clone

- Built a front-end clone of Spotify as an academic project using ReactJS, HTML, and Tailwind CSS.
- The project strengthened my understanding of UI design principles and front-end structure

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## SKILLS

**Programming & OOP:** Python, Java, C++, Object-Oriented Design
**AI/ML & LLMs:** LangGraph, LangChain, RAG, Vector Databases, Prompt Engineering, LLM Fine-tuning
**Databases:** MySQL, MongoDB, SQLite
**Other:** Software Design Principles, Debugging, Remote Collaboration
**Languages:** English, Urdu, Hindi

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## EDUCATION

### BS in Computer Science (BSCS)
Sukkur IBA University | Mar 2021 – May 2025