Zeeshan Afzal

Full Stack Engineer | Python | Django | Fast API | GenAI
Next.js | React.js | AI/ML Integration | Cloud (AWS · Azure)

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Profile Summary

- Results-driven Full Stack Engineer with 5+ years of experience delivering end-to-end solutions across frontend, backend, data pipelines, and AI/ML integration. Proven ability to embed directly with client teams and translate ambiguous business problems into production-grade technical solutions. Experienced in direct client communication across multiple projects, conducting client interview calls to gather requirements, and leading projects end-to-end from inception through delivery.
- Proficient in backend technologies such as **Django**, **Django Rest Framework**, **Fast API**, **GenAI** and **Python**, delivering high-performance APIs and backend services. Extensive experience with SQL and NoSQL databases (MySQL, Postgres, MongoDB), specialising in query optimisation and scalable data pipelines.
- Experienced in frontend development utilising **React.js**, **Next.js**, **JavaScript**, **HTML**, **CSS**, and **Bootstrap** to create responsive, dynamic user interfaces. Comfortable operating autonomously in fast-moving client environments from rapid prototyping through to production delivery.

Experience

Inovaqo | Lahore, Pakistan – Software Engineer **February 2025 – Present**

- Developed and maintained scalable backend systems using **Fast API**, **Flask**, and **Django**.
- Built modern, responsive frontend applications with **React** and **Next.js**, ensuring optimal user experience.
- Engineered **Generative AI** solutions using **LLMs** integrated with tools like **Lang Chain**, **Lang Graph**, **Llama Index**, and **n8n**.
- Adapted rapidly across tech stacks; ensured clean, maintainable code with knowledge transfer to client teams.

ZORY AI | Riyadh, Saudi-Arabia – Generative AI Engineer | Remote **Feb 2026 – Oct 2026**

- Built an end-to-end AI analytics platform using **Next.js** (frontend) and **Fast API** (backend), integrating Google Analytics, Search Console, PostHog, Clarity, Sentry, Uptime Robot, and PageSpeed Insights into a unified client-facing dashboard.
- Engineered AI agents with **LangChain** and **LangGraph** for real-time website monitoring, translating complex client requirements into automated LLM-powered insight pipelines.
- Designed and deployed scalable data pipelines for centralised analytics, enabling cross-platform data aggregation and actionable optimisation recommendations for SEO and Core Web Vitals.
- Collaborated directly with client product managers to iterate rapidly on features, prototyping new agent capabilities and productionising them within tight delivery windows.

Mount Sol | Lahore, Pakistan – Python Developer (Full Stack) **Jan 2024 – Feb 2025**

- Contributed to projects by collaborating with senior developers to meet business requirements and ensure scalability for future needs.
- Modernised backend systems with scalable architectures using **Django Rest Framework**, **PostgreSQL**, **Docker**, as per industry standards.
- Collaborated with senior developers to manage the development lifecycle, from initial coding to final client delivery.
- Ensured stability and enhancements of legacy systems while supporting day-to-day operational needs.

Systems Limited | Lahore, Pakistan – Python Dev & React Js **Sep 2021 – Jan 2024**

- Collaborated with cross-functional teams including product management, UX/UI designers, and business analysts to define product vision and roadmap, ensuring technology alignment with business goals.
- Designed and delivered web applications using **DRF**, **PostgreSQL**, **React Js**, collaborating with team members to meet project requirements.

Major Projects

Zory AI Intelligence | Next.js, Fast API, Lang Chain, LangGraph

- Built an AI-powered website analytics platform using **Next.js**, **Fast API**, **LangChain**, and **LangGraph**, integrating Google Analytics, Search Console, PostHog, Clarity, Sentry, Uptime Robot, and Page Speed Insights. Developed AI agents for real-time monitoring and delivered LLM-powered insights to improve SEO, Core Web Vitals, and website performance.

OpenClaw WhatsApp Assistant Agent | Fast API, OpenClaw, WhatsApp Integration, Azure

- Built an AI assistant agent with **OpenClaw** and **Fast API** that operates inside WhatsApp channels, triggered directly from the chat to carry out tasks on behalf of users.
- Automated workflows across tools: creating **Jira** tickets, sending emails, and performing **Slack** actions, all initiated from a WhatsApp message.
- Enabled conversational Q&A by analysing channel chat history, so users can ask the agent questions about ongoing discussions.
- Integrated the WhatsApp messaging channel and deployed the backend on **Azure**.

Turing Agent PROJECT | Next.js, Tailwind CSS, Fast API, Supabase, FalkorDB

- Developed a Turing Agent Platform with real-time video/audio calling, messaging, organisation-based channels, and agent mode. Built and integrated APIs using **Next.js**, **Fast API**, **Supabase**, **PostgreSQL**, and implemented a knowledge graph with **FalkorDB**.

Review-Munch Restaurant | Next.js, Fast API, Postgres, Pinecone

- Developed a Restaurant AI Agent enabling users to ask questions, explore similar restaurants, and receive comparative insights. Integrated SERP API to fetch and analyse customer reviews, implemented secure payment via **Stripe**, and built backend APIs integrated with the frontend for seamless user interactions.

E-Commerce Web Application | Django, Django Rest Framework and React JS

- Developed a full-stack e-commerce web app with primary responsibility for designing and implementing APIs using **Django Rest Framework**. Key features: JWT Authentication / Social Auth, Stripe payment integration, Admin Panel, User Panel, Vendor Panel, and Email via SMTP.

Technical Skills

Backend:	Django, Django Rest Framework, Flask, Python (5+ yrs), Fast API
Generative AI:	Lang Chain, LangGraph, Lang Smith, Crew AI, Open Claw, Llama Index, N8N, Vapi, Eleven Labs, OpenAI, Claude, Gemini, Loveable, Base64, Multimodal
Frontend:	JavaScript, CSS, HTML, Bootstrap, Next JS, React
SQL / Databases:	MySQL, Postgres, SQLite, MongoDB
Vector Databases:	Pinecone, FAISS, Chroma, FalkorDB, Qdrant, Weaviate, pgvector
DevOps & Cloud:	Docker, Git, CI/CD (GitHub Actions), AWS (EC2, S3), Azure, GCP, Vercel, Python-Anywhere, Contabo

Certifications (Udemy)

1. Django the Complete Course | Credential ID UC-d54fbf4f-7c90-452c-9470-8f357653f587 **Nov 2024**
2. Generative AI with Lang chain and Hugging face | Credential ID UC-27652cb6-7505-45f4-a68f-2beabf2dd836 **Jan 2025**

Education

Khwaja Fareed University of Engineering & Information Technology **2017 – 2021**
Bs Computer Science *RYK, Pakistan*