

Hassan Shahzad

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Objective

Full Stack Engineer with experience in designing, building, and scaling high-performance Python and React-based systems supporting 100K+ active users. Deep expertise in Python (Django, FastAPI), RESTful APIs, PostgreSQL, React, and cloud-native deployments using Docker and AWS. Proven track record of end-to-end feature ownership, backend performance optimization, CI/CD improvements, and mentoring engineers. Experienced in building resilient, observable, production-grade systems and integrating AI/LLM-powered features into real-world applications.

Work Experience

Xeven Solutions | Onsite | May 2025 – Present

Optimized backend APIs using Python and achieving a 40% reduction in latency and significantly improving system performance under high concurrency. Designed and maintained reusable Python backend packages that accelerated development timelines by 30% across multiple projects. Led the integration of LLM-powered features for intelligent search, recommendations, and automated support workflows, while ensuring 99.9% uptime through secure deployments, proactive monitoring, comprehensive logging, and rapid incident resolution. Took full end-to-end ownership of backend services, encompassing system design, implementation, testing, deployment, and ongoing production support.

NETSOL Technologies | Hybrid | Sep 2023 – Apr 2025

I designed and maintained scalable applications using Python and React, emphasizing clean, modular architecture for long-term maintainability. I have also worked with product managers, business stakeholders, and cross-functional teams to translate business requirements into technical solutions. I built and optimized RESTful APIs capable of handling over 100,000 daily requests, improving response times by 35% through careful query and logic optimization. Additionally, I implemented real-time analytics with tag-based tracking to monitor customer behavior and introduced session-based data storage strategies that reduced database load by 25%. I managed containerized deployments using Docker and AWS services, including EC2 and ECR, facilitating smooth scaling and CI/CD workflows. Beyond technical contributions, I mentored junior developers, conducted code reviews, enforced coding standards, and enhanced overall engineering practices across the team.

Hassol | Full Time | Oct 2022 – Sep 2023

I delivered end-to-end full stack solutions for e-commerce platforms, portals, and user-facing applications, building responsive React interfaces with cross-device compatibility that significantly improved user engagement. I developed and integrated REST APIs to ensure seamless data flow between frontend and backend systems, while optimizing frontend performance and implementing state management for complex, dynamic applications. Additionally, I collaborated closely with clients to translate business requirements into technical solutions using Python and React, ensuring that applications met both functional and user experience goals.

Upwork Full Stack developer | Remote | Jan 2022 – Dec 2022

I have delivered multiple production-grade web applications using React, Python, Node.js, Express, and MongoDB, designing scalable backend architectures with optimized REST APIs and database schemas. I have worked directly with international clients to define requirements and deliver solutions on time, managing the entire project lifecycle—including planning, development, testing, deployment, and maintenance. Throughout, I have ensured strong security practices, performance optimization, and cross-browser compatibility.

Skills

- Django Rest
- Typescript
- Postgres
- JavaScript
- React
- Microservices
- FastApi
- MongoDB
- Python
- LLM
- AWS

Education

- BSc. in Computer Science (COMSATS University, Lahore, 2019 – 2023) CGPA:3.14
- Intermediate in Computer Science, ICS (FC College, Lahore, 2016 – 2018)
- Matriculation (Crescent Model Higher Secondary School, Lahore, 2014 – 2016)

Certifications

- Web Design for Everybody: Basics of Web Development & Coding Specialization [[Certificate](#)]
- Web Applications for Everybody Specialization [[Certificate](#)]
- Graphic Design Specialization [[Certificate](#)]
- Developing frontend apps with react [[Certificate](#)] [[IBM Certificate](#)]
- Introduction to Web Development with HTML, CSS, JavaScript [[Certificate](#)]

Notable Projects

BMW & MINI Dealer Portal

- Delivered APIs supporting 100+ dealerships and thousands of daily users.
- Improved PostgreSQL query performance by 30%, reducing system latency.

AppexNow – Centralized Financing Platform

- Built centralized user management and authentication system across microservices.
- Enabled modular security, reducing redundant code and improving scalability

Shahada.ai – AI-Powered Learning Platform

- Built backend services in Python with Elasticsearch fuzzy search, improving knowledge discovery by 50%.
- Supported 10k+ daily active users with high availability.

AI-Powered Customer Support Chat

- Developed socket-based backend with real-time communication.
- Integrated AI Langgraph for Chatbots
- Integrated LLMs for intelligent responses, reducing resolution times by 45%.

Extra Activities:

Association for Computing Machinery (ACM) – *Vice President* (Aug 2020 to Feb 2022)

The VP of ACM is responsible for leading strategic initiatives, managing operations and policies, and promoting computing as a profession. They collaborate with other leaders, serve as a spokesperson, and engage members.