

Talha Shafeeq

Software Engineer

Lahore, Pakistan

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Professional Summary

Experienced Senior Backend Developer with 4+ years in Python/Django, specializing in scalable REST APIs, backend optimization, and integrations with Nginx, WebSocket (Django Channels), Elasticsearch, and AWS. Proven in designing relational data models using Django ORM, performance tuning, and cloud-based architectures. Passionate about clean, maintainable code and collaborative remote environments.

Work Experience

Senior Backend Developer

CODE CLEVER, Lahore, Pakistan

Nov 2022 – Present (2 years)

- Led development of scalable backend systems using Python/Django, building RESTful APIs for high-performance applications integrated with frontend React components.
- Optimized database transactions and performance with Django ORM, reducing query times by 25% in geospatial data services.
- Configured Nginx as reverse proxy for API endpoints, handling load balancing and security optimizations.
- Implemented WebSocket communication via Django Channels for real-time features in attendance management apps.
- Integrated Elasticsearch for advanced search and logging, enabling efficient data indexing and querying.
- Set up monitoring with Prometheus for backend metrics, ensuring high availability on AWS (S3, Route 53).
- Collaborated with DevOps and Product Managers in Git-based workflows, conducting code reviews to maintain quality.
- Managed CI/CD pipelines on AWS, deploying microservices with Docker for 30% improved performance.

Associate Software Engineer (Backend Focus)

EMPG LABS, Lahore, Pakistan

Jan 2022 – Feb 2023 (1 year)

- Developed geospatial microservices using Python/Django, integrating REST APIs for real estate platforms like Zameen.com.
- Designed data models with Django ORM for spatial data visualization, 3D floor plans, and interactive searches.
- Extended WebSocket functionality with Django Channels for live property updates and user interactions.

- Optimized Elasticsearch integrations for fast search in mapping APIs, boosting user engagement.
- Configured Nginx for API routing and troubleshooting, ensuring seamless frontend-backend communication.
- Monitored systems with Prometheus-like tools, tuning performance on cloud environments (AWS preferred).
- Contributed to backend architecture decisions, using Git for collaborative development and code standards.

Backend Developer (Python/Node.js)

ALPHARAGES, Lahore, Pakistan

Oct 2021 – Dec 2021 (3 months)

- Built robust APIs with Python/Django and Node.js, focusing on scalable integrations and data handling.
- Implemented RESTful services with Django ORM for database management and transaction efficiency.
- Gained hands-on experience in AWS services (S3) for storage and deployment.

(Combined experience: 4+ years in Python/Django backend development across roles.)

Projects

Geospatial Real Estate API Platform

Jan 2022 – Aug 2022

- Developed a full-stack backend for Plot Finder tool using Python/Django, enabling users to search millions of properties via REST APIs.
- Integrated Django ORM for relational data modeling of GIS data, with performance tuning for large datasets.
- Set up WebSocket with Django Channels for real-time map updates and user notifications.
- Configured Elasticsearch for advanced spatial searches and logging.
- Deployed on AWS with Nginx reverse proxy, monitoring via Prometheus for metrics.
- *Tech:* Python, Django, Django Channels, Elasticsearch, AWS (S3, Route 53), Git.

Attendance Management Microservices

Nov 2022 – Jul 2023

- Architected microservices backend for Sales App using Python/Django, focusing on attendance tracking APIs.
- Built RESTful endpoints with Django ORM for secure data transactions and user authentication.
- Implemented real-time features via WebSocket (Django Channels) for live updates.
- Optimized with Elasticsearch for search and Prometheus for monitoring backend health.
- Managed infrastructure on AWS, including Nginx configuration for API optimization.
- *Tech:* Python, Django, Celery, Redis, Elasticsearch, AWS, Prometheus.

Automated SEO Analysis Tool

Aug 2024 – Present

- Created a backend system using Python/Django to automate Google search result collection via DataForSEO API.
- Designed REST APIs for data ingestion into BigQuery, with Django ORM for modeling analytics data.
- Integrated Elasticsearch for query logging and WebSocket for real-time analysis updates.
- Configured Nginx and AWS (Route 53, S3) for deployment and monitoring with Prometheus.
- *Tech:* Python, Django, BigQuery, Elasticsearch, AWS, Git.

Fleet Management Platform

Apr 2023 – Sep 2024

- Enhanced backend with Python/Django for route optimization and real-time tracking APIs.
- Used Django ORM for vehicle data models, integrating WebSocket for live driver updates.
- Added Elasticsearch for search and Prometheus for performance metrics on AWS.
- *Tech:* Python, Django, GIS (QGIS), AWS.

Skills & Qualifications

- **Backend Development:** 5+ years total, 4+ years Python/Django; REST APIs design/consumption.
- **Database & ORM:** Django ORM, database transactions, performance tuning; PostgreSQL, MongoDB.
- **Infrastructure:** Nginx configuration/optimization; WebSocket (Django Channels); Elasticsearch integration.
- **Monitoring & Cloud:** Prometheus (metrics/monitoring); AWS (Route 53, S3, EC2); Google Cloud.
- **Tools & Practices:** Git for collaboration; CI/CD with Docker; Code reviews; Celery, Redis.
- **Other:** GIS (ArcGIS, QGIS); SEO tools; Agile methodologies.

Education

Bachelor of Science in Computer Science

Information Technology University, Lahore, Pakistan

Jan 2017 – Dec 2021

- *Relevant Coursework:* Database Systems, Software Engineering, Cloud Computing.
- *Skills Acquired:* ArcGIS, Python programming.