

MITANSHI SHELAR

Python Django Developer — 3+ Years Experience

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Professional Summary

Python Developer with 3+ years of experience in building scalable backend systems, RESTful APIs, and PyQt-based desktop applications. Highly proficient in Django, DRF, PostgreSQL, Docker, AWS, and analytics dashboards. Experienced in designing modular architectures, optimizing SQL/ORM performance, integrating cloud services, and delivering secure, production-ready applications in Agile environments.

Technical Skills

Languages: Python, JavaScript, SQL

Frameworks: Django, Django REST Framework, jQuery, Ajax

Desktop GUI: PyQt5, PyQt6

Databases: PostgreSQL, MySQL, MongoDB, SQLite

Cloud & DevOps: Docker, Podman, AWS, Git, GitHub, Bitbucket, Grafana

Python Libraries: Pandas, NumPy, OpenCV, SQLAlchemy, psutil

Front-end: HTML5, CSS3, Bootstrap

Other: REST APIs, PyQt UI/UX, Performance Tuning, CI/CD, Code Reviews, Linux (Ubuntu)

Professional Experience

Cyber Infrastructure Pvt. Ltd. (CIS)

Software Developer

Jul 2021 – Present

Indore, MP

- Designed and developed scalable Django applications, modular RESTful APIs, and secure authentication systems.
- Improved API performance through query optimization, indexing, and schema restructuring.
- Developed PyQt-based desktop applications for device monitoring, turbomolecular pump control, and real-time analytics.
- Implemented Docker-based deployments and integrated AWS (EC2, S3, Lambda) for cloud scalability.
- Built Grafana dashboards for live visualization, analytics, and automated reporting tasks.
- Collaborated with cross-functional teams for requirement gathering, architecture design, and CI/CD improvements.

Key Projects

AJLakes Hospitality Training Management System

- Developed modular REST APIs, JWT-based authentication, and multi-role access (Admin, Manager, User).
- Created VR-based training analytics: decision accuracy, eye-contact duration, evaluation timing, and scoring.
- Built real-time leaderboard and dynamic script-based scenario engine for adaptive learning.
- Integrated AWS S3 for cloud file storage and automated reporting workflows.

Cryogenic Pump & Turbomolecular Pump Management System (Desktop + Web Application)

- Built a combined PyQt desktop app and Django web platform for pump control, real-time monitoring, and automated testing.
- Built Django backend with Grafana integration for live performance visualization, historical analytics, and maintenance dashboards.
- Implemented PostgreSQL-backed data storage, Celery-based scheduled reporting, alert systems, and CSV data processing.
- Designed a multi-threaded, intuitive PyQt UI for smooth device operations, diagnostics, and historical data analysis.

Employee Monitoring System

- Designed cross-platform PyQt desktop application for activity logging, session tracking, and productivity analytics.
- Implemented platform-specific tracking (pygetwindow on Windows, wmcctrl on Linux).
- Created reporting dashboards, scheduled summaries, and secure offline SQLite storage.

Strickland Inventory Technologies

- Built functionality for manual registration and configuration-based management of end users.
- Developed features for accurate real-time inventory tracking with permission-based access.
- Implemented CSV-based import/export modules for seamless inventory operations.
- Built user panel for easy navigation and inventory list visualization for end users.

Education

Devi Ahilya Vishwavidyalaya

B.Sc. in Computer Science

2021

Indore, MP