

Suraj Badre

Python Developer

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Summary

- Python Developer with 2+ years of experience in building scalable, high-performance backend systems using Python, Django, Flask, and FastAPI. Proven expertise in REST API development, microservices architecture, message queues (RabbitMQ), background processing (Celery), database optimization, Docker-based deployments, and AWS cloud environments.

Work Experience

Young Element India Pvt. Ltd.

Software Engineer (Python)

Nov 2023 – Present

Pune, Maharashtra

- Spearheaded the migration of a legacy Python 2.7 codebase to Python 3.9, strengthening backend scalability and improving application performance by 25% using Django.
- Developed 15+ secure RESTful APIs with JWT and OAuth 2.0 authentication, which decreased unauthorized access attempts by 75% and improved enterprise application security for 10,000+ users.
- Integrated background task processing and message-driven workflows using Celery and RabbitMQ, improving system responsiveness and reliability by 30% while handling 40,000+ daily events.
- Containerized 8+ applications using Docker and implemented CI/CD pipelines, reducing deployment time by 60% and increasing deployment frequency by 3x with zero downtime.

Projects

Project 1: Cloud-based Insurance Case Management Tool

Role: Python Developer

- Developed 25+ RESTful APIs using Django REST Framework and Flask, securing endpoints with JWT and OAuth for 10k+ active users.
- Architected asynchronous task processing with Celery and RabbitMQ, processing 40k+ events per day and improving system responsiveness by 30%.
- Optimized 50+ complex SQL queries and database schemas across PostgreSQL, MySQL, and MongoDB, reducing query execution time by 25–30% and improving overall application performance by 20%.
- Containerized 12+ backend services using Docker and integrated CI/CD pipelines, reducing deployment time by 60% and cutting release-related incidents by 40%.

Project 2: Hospital Management System

Role: Python Developer

- **Description:** Designed and developed a Hospital Management System to automate patient registration, appointments, billing, and medical records, serving 5,000+ monthly active users.
- **Responsibilities:** Built 20+ RESTful APIs using Django and Django REST Framework with role-based access control, securing sensitive patient data for 100,000+ records.
- Conducted 200+ API tests using Postman and wrote 150+ unit tests, reducing pre-production defects by 30% and improving code coverage to 85%.
- Collaborated with 8+ cross-functional teams using Git in an Agile/Scrum environment, completing 50+ code reviews and reducing merge conflicts by 40%.
- **Technologies Used:** Python, Django, DRF, REST APIs, HTML, CSS, Bootstrap, JavaScript, React, MySQL, PostgreSQL, Postman, Git.

Technical Skills

- **Languages:** Python, Core Python, OOPs, JavaScript
- **Frameworks:** Django, Django REST Framework, Flask, FastAPI
- **Architecture:** REST APIs, Microservices, Event-Driven Systems
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite
- **Messaging & Background Tasks:** RabbitMQ, Celery
- **DevOps & Deployment:** Docker, CI/CD, Pip
- **Cloud Platforms:** AWS (EC2)
- **Servers:** Gunicorn, uWSGI, Nginx
- **Testing:** Unit Testing, API Testing, Integration Testing, PyTest, Django Tests, Postman
- **Version Control:** Git, GitHub

Education

Rajiv Gandhi College of Engineering – Nagpur University

Bachelor of Engineering (Mechanical Engineering)