

Shivansh Ahirwal

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Backend Engineer with 1+ years of experience building scalable Python/Django systems and production APIs. Experienced with PostgreSQL, Redis, RabbitMQ, Docker, AWS (EC2, S3), and real-time backend architectures. Built CRM and automation systems end-to-end with focus on reliability, performance, and backend quality.

Skills

- **Languages:** Python, SQL, JavaScript
- **Backend Frameworks:** Django, Django REST Framework, FastAPI
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite
- **Tools & Tech:** Redis, RabbitMQ, Docker, AWS EC2, AWS S3, Nginx, Gunicorn, Linux, n8n, Ollama
- **Testing:** Pytest, API Testing, Unit/Integration Testing
- **Core Concepts:** REST APIs, System Design, WebSockets, Async Processing, Automation Systems, AI Agents, LLM Integration

Experience

EventGraphia, Gurugram

Jan 2025 – Present

SDE

- Designed a **reusable desktop agent framework** enabling web-to-local-system integration without backend rewrites, reducing integration effort by **60%**.
- Engineered a **bidirectional WebSocket communication layer** with reliable handshake and reconnection mechanisms, achieving **99.9% message delivery reliability**.
- Developed a **persistent SQLite queueing system** with dynamic prioritization and recovery, reducing failed task executions by **70%**.
- Extended Django authentication for desktop agents, reducing maintenance overhead by **40%**.
- Architected a **scalable Django CRM system** managing clients, photographers, bookings, and workflows, supporting **500+ booking workflows/month**.
- Built a **dynamic estimation engine** reducing quotation generation time by **75%**.
- Designed deliverables management workflows improving delivery tracking efficiency by **50%**.
- Wrote **API integration tests with Pytest** for critical CRM workflows, improving release confidence and reducing regression issues.
- Containerized and deployed the platform using **Docker on AWS EC2 with CI/CD**, reducing environment setup time by **80%**.

Seize the Ads, Indore

May 2024 – Jul 2024

Python Intern

- Built a **Selenium-based automation system** for lead generation workflows.
- Developed **Django REST APIs** to trigger and manage automation remotely.
- Deployed scalable solutions on **AWS EC2** with domain management.
- Integrated proxy systems to improve automation reliability.

Projects

CodeBot – AI Code Review Agent

[GitHub](#)

- Built a lightweight autonomous coding agent for Python/Django using LLMs.
- Designed an agent execution loop with task planning, tool execution, and JSON-based validation.
- Implemented modular planner, Ollama integration, and constrained file/shell tools.
- Containerized using Docker for local inference.

Education

Sri Aurobindo Institute of Technology

2022 – 2026

B.Tech in Computer Science