

CHANCHAL K MAURYA

Backend Software Engineer – Python & Django

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PROFESSIONAL SUMMARY

Backend engineer with 2.5+ years of experience building Python and Django services for high-traffic, consumer-scale platforms. Strong in REST API design, data modeling, query optimization, asynchronous processing, and automated testing. Comfortable owning a service end to end – from schema design and payment integrations to AWS deployment – and shipping full-stack features with Next.js and TypeScript.

EXPERIENCE

Software Engineer – Interview Kickstart

May 2024 – Jan 2025

- Re-architected the candidate-evaluation pipeline using asynchronous task orchestration and algorithmic improvements, cutting runtime to roughly **1/24th** of the original.
- Designed and shipped Django REST Framework services integrating multiple external APIs; used Django ORM for core models and SQLAlchemy in lightweight auxiliary services.
- Profiled and resolved database and service bottlenecks, and added unit tests on critical paths so performance fixes stayed safe to release.

Software Development Engineer – Info Edge India Ltd (Shiksha)

Jun 2022 – May 2024

- Built and maintained Python, Django, DRF, and MySQL APIs for Shiksha, an education platform serving millions of users.
- Created automation tooling and unit-test suites that reduced manual QA effort by about **60%**.
- Diagnosed production issues, tuned slow queries, and coordinated cross-team fixes using Git-based workflows.

PROJECTS

LoginTheCode – Full-Stack LMS with Payments, Assessments & Progress Tracking

Django REST Framework · Next.js · TypeScript · MySQL · React Query · Tailwind CSS · Razorpay

- Architected a full-stack LMS with Guest, Student, and Admin interfaces across **10 modular Django apps**.
- Built a learning engine supporting **5 content formats** (videos, notes, MCQ quizzes, coding assignments, projects) with completion tracking, course progress, attempts, submissions, and review workflows.
- Implemented free and paid enrollment with server-side pricing, Razorpay checkout with signature verification, idempotent payments, retry/recovery handling, and automatic access activation on success.
- Added JWT authentication, role-based route guards, persistent post-login redirects, and 5-state course CTAs (LOGIN, CHECKOUT, ENROLL_FREE, CONTINUE_COURSE, UNAVAILABLE).

Truck Stop & Fuel Optimizer

Python · Django · DRF · PostgreSQL · Redis · Docker · OpenRouteService

- Built a route-planning API that minimizes truck fuel cost using live fuel prices and vehicle range.
- Developed DRF endpoints for routes, fuel-stop recommendations, and trip-cost estimates using Haversine distance and OpenRouteService routing.
- Cached route computations in Redis to cut repeat calls to the third-party routing API.

LinkedIn AI Analyzer for Job Matching

Django · DRF · MySQL · MongoDB · Enrich Layer API · OpenAI/Gemini · Next.js

- Built a full-stack tool that scores how well a LinkedIn profile matches a job description and returns specific, actionable feedback.
- Integrated the Enrich Layer API to retrieve LinkedIn profile data and store it in structured form in MySQL.
- Connected OpenAI/Gemini for LLM-based fit assessment, served through a DRF backend to a Next.js frontend.

TECHNICAL SKILLS

Languages	Python, SQL, TypeScript, C
Backend	Django, Django REST Framework, FastAPI, REST APIs, Microservices, Async Programming
Databases	MySQL, PostgreSQL, MongoDB, Redis, Django ORM, SQLAlchemy
Cloud & DevOps	AWS (EC2, Lambda, RDS), Docker, Linux
CS & Tools	Data Structures & Algorithms, Distributed Systems, OOP, unittest, Git/GitHub/GitLab

EDUCATION

B.Tech, Computer Science & Engineering – PSIT, Kanpur

2022

Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks