

SATYAM SHARMA

Backend & Platform Engineer | Python, Django, AWS, DevOps

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SUMMARY

Backend and platform engineer with **4+ years of production Python and Django** across three product companies (HT Media, India IVF Fertility, InstaAstro). I own the whole path of a change: the service, the data model, and the Linux, Docker, AWS and observability layer it runs on. Independently I built and operate **MoneyDock**, a fintech platform of 15,977 programmatic pages (~9,250 indexed by Google, 168K search impressions) gated by 272 automated tests, and **Animatrixx**, an anime and manga platform on nine self-hosted containers with its own Prometheus, Grafana and Loki monitoring. Hands-on with **LLM API integration** in production, including knowing when deterministic code is the safer choice.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Bash/Shell

Backend & Frameworks: Django, Django REST Framework (DRF), FastAPI, Celery, Next.js (App Router), React, Node.js, REST APIs, Microservices

Databases & Messaging: PostgreSQL, MariaDB/MySQL, MongoDB (Mongoose), Redis, Elasticsearch, RabbitMQ, Amazon S3, Scrapy, BeautifulSoup

Cloud, DevOps & Infrastructure: AWS, Docker, Docker Compose, Kubernetes, nginx, uWSGI, Linux server administration, CI/CD pipelines, Vercel, Git

Observability & Testing: Prometheus, Grafana, Loki, Promtail, Vitest, Testing Library, test-gated deployments

Architecture & Practices: System design, database design, caching strategy, ETL and data pipelines, idempotent ingestion, retries with exponential backoff and jitter, ISR/SSR, CDN caching, programmatic SEO, JSON-LD structured data

AI & Data Science: LLM API integration (Google Gemini), AI-assisted development (Claude, Gemini), prompt design, LLM trade-offs (cost, latency, hallucination risk), Machine Learning, Pandas, NumPy

PROFESSIONAL EXPERIENCE

Software Engineer | **HT Media Ltd. (Hindustan Times)** · Gurugram Mar 2026 – Present

- Build and maintain Python and Django backend services for high-traffic products at one of India's largest media groups.
- Work across application code and Linux server operations in a large, established production codebase, owning both the development and the operational half of each change.

Software Engineer (Django, DevOps) | **India IVF Fertility (Pashupati Lifecare)** · Noida Feb 2025 – Mar 2026

- Led backend development of the internal hospital-management platform for a multi-centre fertility hospital chain, used daily by thousands of staff.
- Built Django and DRF services and owned the containers, servers and deployment path they ran on (Docker, CI/CD pipelines, Linux), keeping critical hospital systems available with minimal downtime.
- Designed and administered MariaDB schemas behind day-to-day clinical and operational workflows, and set up system deployment pipelines.
- Integrated Knowlarity and Exotel (cloud telephony), DoubleTick (WhatsApp Business), Razorpay (payments) and **LLM provider APIs**, enabling AI-driven automation across communication and payment workflows.

Backend Software Engineer (Python, Django) | **InstaAstro Technologies Pvt. Ltd.** · Noida Oct 2022 – Dec 2024

- Led backend development for the company's high-traffic consumer product, from API design to production deployment.
- Implemented asynchronous processing with Celery over RabbitMQ, optimised MariaDB access at the ORM level, and shipped services with Docker on Linux; Bash automation cut server-management effort by 20%.
- Monitored and debugged production issues with Prometheus and Grafana, and built customer-analysis reports with Pandas and NumPy.

Software Developer (Freelance) | **Remote, client in Germany** 2021 – 2022

- Worked in a distributed team on a German client's website, improving performance and user experience; built custom WordPress templates and optimised modules.

PROJECTS

MoneyDock | Personal-finance platform for Indian investors | moneydock.in Dec 2025 – Present

Next.js 16 (App Router), React 19, TypeScript, MongoDB, Vercel, Vitest · Solo: architecture, build, data pipelines, operations

- Designed, built and operate a no-signup platform for Indian investors (27 calculators, live markets, a page per NSE stock and mutual fund) that reached 15,977 sitemap URLs and ~9,250 indexed pages through programmatic SEO, earning 168K Google impressions and 1,270 organic clicks (Nov 2025 – Oct 2026).
- Built five external data feeds (NSE Bhavcopy, AMFI NAV, Yahoo Finance, CoinGecko) on nine cron jobs with time budgets and batched writes; switching ~2,300 per-symbol API calls to one official CSV removed the rate-limit ceiling.
- Stored five years of price history as capped arrays in MongoDB (about 150 MB for 2,400 stocks instead of tens of millions of documents), with CDN caching, ISR tuned to each dataset and timeouts on every outbound call.
- Wired 272 automated tests into the build so a failing test blocks the deploy; all financial maths (returns, volatility, drawdown, XIRR) runs in pure, unit-tested functions, and 14 hardening fixes are each pinned by a regression test.
- Integrated **Google Gemini** for generated comparison verdicts, then moved the LLM off the request path and replaced it with tested, computed prose, removing hallucination risk, multi-second latency and per-page inference cost.

Animatrixx | Anime streaming and manga reading platform | animatrixx.in Aug 2024 – Present

Django 5, DRF, uWSGI, nginx, Celery, RabbitMQ, Redis, MariaDB, Elasticsearch, Amazon S3, Docker, Prometheus, Grafana, Loki

- Built and self-host the platform on nine Docker containers: Django under uWSGI behind nginx, Celery on RabbitMQ, Redis, MariaDB, Elasticsearch and S3, monitored by my own Prometheus, Grafana and Loki stack.
- Built an ingestion pipeline that survives two undocumented rate limits (MangaDex, AniList), with retries chosen by failure class, exponential backoff with jitter, and idempotent upserts so a re-run repairs any gaps.
- Shipped 33 API operations, including Elasticsearch full-text search, Google OAuth and Redis-backed reading history.

InstaAstro | Astrology consultation platform (user app and astrologer app) | instaastro.com Oct 2022 – Dec 2024

Python, Django, DRF, Celery, RabbitMQ, MariaDB, Docker, Linux, Prometheus, Grafana · Company product, InstaAstro Technologies

- Built the backend of a two-sided marketplace connecting users with astrologers for consultations, at a startup that raised a \$2.3M pre-Series A in 2024.
- Built and maintained Django/DRF REST APIs serving 100K+ daily users, keeping server-side operations fast and reliable.
- Built Slack and WhatsApp automation bots that reduced manual intervention by 30%.

EDUCATION

Master of Computer Applications (MCA) | Indira Gandhi National Open University (IGNOU) 2024 – 2026

Pursued alongside full-time work as a software engineer.

Bachelor of Computer Applications (BCA) | Panjab University, Chandigarh 2019 – 2022

Web and software development. Grade: A+.

CERTIFICATIONS & TRAINING

- **Data Science & Machine Learning Apprenticeship** – Coding Ninjas (Jul 2022 – Sep 2023)
- **Data Structures & Algorithms in Python** – Certificate of Excellence, Coding Ninjas (Nov 2022)
- **Python** – Certificate of Excellence, Coding Ninjas
- **Django** – Skill Assessment (passed), LinkedIn