

Papan Sarkar

Senior Full Stack Engineer · Python, Django / FastAPI · Technical Consultant

West Bengal, India · Available for contract & consulting engagements

papansarkar.com/portfolio · linkedin.com/in/papansarkar101 · github.com/papansarkar101

PROFESSIONAL SUMMARY

Senior Full Stack Engineer and Technical Consultant with over 6 years of experience architecting and scaling SaaS platforms, AI-driven products, and enterprise automation systems. Deep expertise in Python (Django/DRF, FastAPI), React, and AWS. Proven track record leading cross-functional engineering teams, optimising high-concurrency database architectures, and delivering production software for clients across four continents.

CORE COMPETENCIES

Backend Python, Django, Django REST Framework, FastAPI, Node.js, Express, REST & GraphQL APIs

Architecture & Scaling Multi-tenant SaaS, microservices, PostgreSQL, MongoDB, Redis caching, Celery async queues

Frontend & UI/UX React.js, Vue.js, JavaScript (ES6+), HTML5/CSS3, Figma design systems

Cloud & DevOps AWS, Docker, CI/CD pipelines, serverless deployments, system optimisation

Leadership Technical strategy, sprint planning, code review, developer mentorship, system architecture

PROFESSIONAL EXPERIENCE

Senior Full Stack Engineer · [Gyanbeej](#)

Django, Education AI | India · Remote (Part Time) | Oct 2024 – Present

- ❖ Architected the complete scalable backend from scratch using Django and MongoDB, supporting high-throughput AI-driven query processing for students.
- ❖ Engineered context-aware API workflows integrating class, subject, and historical metadata, improving LLM response accuracy and context retrieval speed.
- ❖ Authored and published [gyanspark](#) on PyPI, a Python client SDK enabling third-party API integration for automated AI educational workflows.

Co-Founder & Development Manager · [Yestoideas](#)

India · Remote | Feb 2022 – Aug 2026

- ❖ Co-founded and scaled a web development agency delivering 30+ production applications across **SaaS, logistics, compliance, Education** and analytics. Led a 5-member engineering team, owning technical strategy, hiring, and delivery standards.
- ❖ Built and shipped flagship products including **MandarinBoost**, a Chinese language learning platform (Django, PostgreSQL, Neo4j), and **RankEval**, an evaluation and operational workflow platform.
- ❖ Embedded as technical consultant with client engineering teams at **Ironfort, MetroMax Group (FleetDrive360), Pitchline, Sox Logistics**, and **DrayToDock** — guiding architecture decisions, unblocking development, running code and quality reviews, and presenting demos to their end clients.

- ❖ Architected multi-tenant backend systems with Django, PostgreSQL, Redis, and Celery, supporting concurrent client workloads on shared infrastructure.

Frontend Developer • [Preflet](#)

Portugal • Remote | May 2021 – Nov 2021

- ❖ Developed responsive, user-centric frontend modules and Figma UI/UX prototypes for web applications.
- ❖ Implemented interactive dashboard components that improved user engagement and visual data representation.

Full Stack Developer • Pikkal

Singapore • Remote | Jan 2021 – Apr 2021

- ❖ Enhanced a marketing automation platform using Django and Vue.js, implementing custom campaign management and data visualisation modules.
- ❖ Automated reporting workflows and integrated third-party analytics tools, accelerating data processing and marketing insight.

EDUCATION

B.Tech, Computer Science & Engineering

St. Mary Technical Campus, Kolkata | 2020 – 2023 | CGPA 9.08 / 10

Diploma, Computer Science & Technology

Bipradas Pal Chowdhury Institute of Technology | 2017 – 2019 | CGPA 8.4 / 10

ADDITIONAL INFORMATION

Languages English (fluent), Hindi (fluent), Bengali (native)

Availability Open to global remote, consulting, leadership, and contract roles

OPEN SOURCE

[drf-prefetch-hint](#) — Python package • MIT • <https://github.com/papansarkar101/drf-prefetch-hint>

Django REST Framework tool that identifies N+1 queries and generates the exact select_related / prefetch_related call to fix them. Attributes every query to the serializer field that caused it by wrapping DRF's attribute resolution and tagging queries through Django's execute_wrapper. Dev-only, no middleware, no runtime hook. Supports Python 3.10–3.13, Django 4.2–5.1.