Rajat Jog Senior Backend Engineer

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PROFILE

Senior Backend Engineer with 7 years of experience building Python/Django/FastAPI systems for regulated healthcare, fintech, and E-commerce environments. Deep expertise in API performance optimization, HIPAA/SOC2-compliant architecture, and AWS-based ML workflow integration. Open-source contributor with published libraries in production use.

SKILLS

Programming: Python | SQL | Bash | JavaScript
Backend Frameworks: Django | Django REST Framework | FastAPI | REST API Design | Celery
Databases: PostgreSQL | MongoDB | Redis
Cloud & Infrastructure: AWS | EC2 | S3 | Lambda | SageMaker | IAM | CloudWatch | Docker
Tools: Git | GitHub Actions | OpenAPI/Swagger

PROFESSIONAL EXPERIENCE

Software Engineer -> Senior Software Engineer 11/2022 – Present | Pune, India
Mindbowser Inc

- Integrated Deepgram real-time speech-to-text API into a HIPAA-compliant clinical platform, cutting provider documentation time by ~40% across 3 EMR systems.
- Architected HL7/FHIR-compliant multi-tenant data exchange layer in Django, handling concurrent record syncs with full SOC2 audit traceability at every API boundary.
- Integrated AWS SageMaker inference endpoints via async Celery workers, shifting healthcare risk-scoring pipelines from nightly batch to near-real-time delivery.
- Reduced p95 API response times by 60% via PostgreSQL composite index redesign and Redis read-through caching, eliminating a planned vertical scaling upgrade.
- Led 5-engineer backend team; introduced design review standards and PR checklists that cut escaped defects by 25% and reduced delivery cycles by 3–4 weeks.

Software Engineer 04/2022 – 11/2022 | Noida, India
KiwiTech

- Sustained 5–7 GB daily data throughput across 7 enterprise client APIs with zero SLA breach incidents over a 7-month engagement.
- Replaced a synchronous notification bottleneck with Celery async workers, cutting delivery latency from minutes to under 30 seconds across 15+ daily job types.
- Automated PDF generation and event management pipeline, eliminating 20+ hours of weekly manual ops work.

Python Developer 03/2021 – 04/2022 | Chennai, India
KSBS Group

- Led 3-engineer team to ship a Django e-commerce platform from zero to production in under 3 months, supporting 500 concurrent users at launch.
- Maintained Django attendance system for 100+ employees with 99% uptime over 13 months through proactive query optimization and scheduled health monitoring.

Python Developer 07/2020 – 02/2021 | Pune, India
RedBytes Softwares

- Built Scrapy data pipelines processing 5 GB weekly into MongoDB; increased internal tool adoption by 32% through a custom Django ops platform.

Python Developer 05/2019 – 01/2020 | Pune, India
Laxmi Civil Engg. Pvt. Ltd.
- Automated financial reporting and CMS workflows, eliminating 30+ manual hours per month.

OPEN SOURCE PROJECTS

django-arch-check 05/2026 – Present
Python CLI Tool
- Building an AST-based Django architectural health checker that statically detects structural anti-patterns with a clean detector/analyzer/CLI separation.

Session Bridge AI 04/2026 – Present
VS Code Extension that transfer your context though AI agents
- Built a VS Code extension enabling seamless AI session context handoff across Claude Code, Gemini, and OpenAI with token budget alerting and cost dashboard.

timeblocks 01/2026 – Present
Python Library • Scheduling & Time Interval Management
- Published PyPI scheduling library for Django handling rule-based time blocks, recurrence logic, and overlap detection — 150–200 monthly downloads.

django-system-audit 12/2025 – Present
Open Source Django Library • System Auditing & Operational Event Tracking
- Compliance-grade intent-aware audit trail library for Django built for HIPAA and SOC2-sensitive backends with zero-overhead middleware.

CLIENT PROJECTS

UrgiDoctor — Telemedicine Platform
For Mindbowser
- Architected HIPAA-compliant backend for real-time video scheduling, e-prescription workflows, and FHIR-compatible medical data exchange across iOS and Android.

Cascada — IoT Mobile App Backend
- Built real-time sensor ingestion pipelines and push notification system for IoT-connected equine hydration tracking platform.

OppVenuz — E-Commerce Platform
- Designed vendor listing and booking infrastructure with Redis-cached high-traffic endpoints and optimised PostgreSQL schemas.

Allday | Dayo — Wellness Rewards App
- Built Shopify marketplace integration and LLM-based user insight summarisation for a real-time wellness rewards platform.

CLOC — Healthcare Platform
- Built multi-tenant Django/DRF backend for a healthcare subscription platform covering hospital management, child profiles, community, scheduling, and notifications — integrated Firebase, Twilio, SendGrid, and Google Cloud Storage across 8+ modular service domains.

EDUCATION

Bachelor of Engineering 06/2015 – 05/2018 | Pune, India
MAEER's MIT College of Engineering

Diploma in Computer Engineering 06/2012 – 05/2015 | Pune, India
Govt. Polytechnic, Pune

CERTIFICATES

AWS Certified Machine Learning – Specialty (MLS-C01)