Naveen Chacko

Backend Engineer · Calicut, Kerala · Open to relocation or remote

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Summary

Backend engineer with nearly 3 years of production experience in Python (Django, DRF, FastAPI), PostgreSQL, Redis and AWS. At TravLounge I own API performance and infrastructure: I scaled the API from ∼15 to 500+ req/s, and migrated the production database across regions with zero data loss.

Experience

Backend Engineer Aug 2025 – Present

TravLounge (Beacon Infotech) — sleeping pods, car wash, food and subscriptions for travellers

- Scaled API capacity from ∼15 to **500+ req/s** with Gunicorn threads, Redis caching and ECS autoscaling to 6–8 tasks, validated with production k6 load tests. Found each bottleneck in turn: sync Gunicorn workers (CPU at 37%, so autoscaling never fired), then a cross-region database (77% CPU at 80 req/s), then app-server CPU.
- Migrated production PostgreSQL (RDS) from Hyderabad to Mumbai via a cross-region read replica, with a ∼10-minute write freeze and **zero data loss**; median API latency fell from **190 to 24 ms** (p90 424 to 114 ms) and the database moved onto the private network.
- Cut the busiest endpoint from 10–22 database queries to 4 (0 when cached) with per-user Redis caches that are invalidated on write and fall back to the database if Redis is down.
- Built monitoring on OpenObserve and Prometheus: API, database and third-party-call dashboards and 9 Slack alerts (5xx, Redis, Celery backlog, PostgreSQL). Configured ECS autoscaling on CPU.
- Set up Docker → ECR → ECS Fargate deploys through GitHub Actions with production approval gates and CI checks on release branches.
- Integrated Razorpay across sleeping pods, car wash, food and subscriptions through one shared payment flow with a handler per product: order creation, signature-checked webhooks that are safe to receive twice, vendor payouts via Razorpay Route, and automatic refunds when two customers pay for the same slot. Post-payment work runs in 13 Celery task types with Redis keys so retries never send duplicates.
- Built WebSocket notifications on Django Channels and Daphne as a separate ECS service, and location search on Elasticsearch.

Python Developer Dec 2023 – Aug 2025

Marlo Technologies — maritime voyage management platform

- Built FastAPI and PostgreSQL services for voyage planning, vessel tracking and voyage mapping.
- Built the contract, estimate and transaction modules, with payments through Airwallex, and used Hasura event triggers to automate steps the operations team did by hand.
- Built credit-score computation and vessel valuation for the platform's financing features, plus voyage summaries and operational dashboards.

Projects

django-reliable-payments — open source GitHub

- Idempotent, HMAC-verified Razorpay webhooks, a payment handler registry, DB-enforced single booking per slot with automatic refunds, and at-most-once Celery side effects. 20 tests on SQLite and PostgreSQL in CI.

jobscarp — personal project GitHub

- Turns job-alert emails into a scored, deduplicated review queue (FastAPI, SQLAlchemy, PostgreSQL, Gmail and Sheets APIs). The match score is a deterministic weighted formula; the LLM only writes the explanation, so scoring stays testable. 80+ tests.

Skills

Languages: Python, SQL, JavaScript, Bash
Backend: Django, Django REST Framework, FastAPI, Django Channels, Celery, Pydantic, Hasura
Data: PostgreSQL, Redis, Elasticsearch, MongoDB, Firestore
Cloud & DevOps: AWS (ECS Fargate, ECR, RDS, EC2, S3, IAM, Secrets Manager), Docker, GitHub Actions
Integrations: Razorpay, Airwallex, Firebase FCM, WhatsApp Business API, MSG91, OpenAI API
Testing & Monitoring: pytest, k6 (load testing), Prometheus, OpenObserve

Education

Python Full Stack Development, Brototype, Kochi Sep 2022 – Sep 2023
B.Tech Mechanical Engineering, APJ Abdul Kalam Technological University (CGPA 7.57) 2022