

MRITUNJAY PRATAP SINGH

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Career Objective

Backend Software Engineer with 2+ years building scalable microservices, event-driven systems, and REST APIs. Proven expertise in Python, FastAPI, Django, and cloud technologies with a track record of delivering production-grade solutions.

Experience

Kogta Financial India Limited

July 2025 – Present

Software Developer

Gurugram

- Architected Communication Aggregator Service with FastAPI and MongoDB, processing 100K+ daily messages across WhatsApp/SMS/RCS for 4 business verticals with 40+ REST APIs and AWS SQS-based async processing.
- Built multi-vendor Dialer Service integrating Ozonetel, Knowlarity, and Exotel with RBI-compliant call routing, webhook processing, and automated call recording, reducing manual effort by 80% for 50+ agents.
- Developed Receivable Engine for NACH/Cheque processing with PostgreSQL and event-driven architecture, automating payment reconciliation workflows.
- Redesigned message tracking system with unique identifiers and audit trails, improving traceability by 100% and reducing support resolution time by 50%.

Coding Ninjas

Feb 2023 – Nov 2024

Python TA

Gurugram

- Developed internal tools using Django, DRF, and PostgreSQL to automate student support workflows.
- Built and optimized REST APIs for real-time code evaluation and content delivery systems.

Projects

Communication Aggregator Service | *FastAPI, MongoDB, AWS SQS, OpenSearch, Beanie ODM*

- Engineered multi-vertical communication platform processing 100K+ daily messages across WhatsApp, SMS, and RCS for CRM, LMS, LOS, and Generic verticals.
- Implemented event-driven architecture with AWS SQS for async batch processing, message queuing, and webhook handling.
- Built comprehensive tracking system with unique message IDs and complete audit trail, plus self-service Excel upload reducing campaign launch time from days to hours.

Multi-Vendor Dialer Service | *FastAPI, MongoDB, Webhooks, REST APIs*

- Architected extensible adapter framework supporting Ozonetel, Knowlarity, and Exotel with RBI-compliant automated number selection.
- Built real-time webhook processing for call status updates, CDR logging, and automated call recording retrieval with agent management APIs.

Receivable Engine (NACH Processing) | *FastAPI, PostgreSQL, AWS SQS*

- Built automated payment reconciliation system handling NACH and cheque processing with batch validation, under-realization, and bank reversal workflows.
- Designed event-driven architecture using AWS SQS for async processing with optimized PostgreSQL schemas for receivable tracking.

Technical Skills

Programming Languages: Python, Java

Backend Frameworks: FastAPI, Django, Django REST Framework (DRF), Flask, Spring Boot

Databases: PostgreSQL, MongoDB, MySQL, Redis, SQLite

Cloud & DevOps: AWS (SQS, S3), Docker, Git, GitLab CI/CD

Message Queues & Search: AWS SQS, OpenSearch, Celery

Tools & Integration: REST APIs, Webhooks, OAuth 2.0, Postman, JIRA, Swagger

Core Concepts: Microservices, Event-driven Architecture, Multi-tenant Systems, DSA, OOP, DBMS

Education

Dr. A. P. J. Abdul Kalam Technical University

July 2019 – June 2023

B.Tech in Computer Science Engineering

CGPA: 8.6