# VANSH TRIVEDI

BACKEND DEVELOPER

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## SUMMARY

Backend Developer with 3+ years of experience building production-grade Python systems across fintech, telecom, and enterprise CRM domains. Proficient in Django, FastAPI, PostgreSQL, Celery, Redis, and Docker with hands-on experience deploying scalable microservices on AWS EC2. Proven track record in REST API design, asynchronous task processing, database optimization, and secure payout workflow implementation. Comfortable owning backend systems end-to-end from architecture to deployment.

## SKILLS

Python | Django | Flask | FastAPI | PostgreSQL | MySQL | Microsoft SQL Server | Redis | Celery | Docker | AWS EC2 | Heroku | Git | Linux | REST API Design | Microservices Architecture | Distributed Systems | API Versioning | Firebase Cloud Messaging | Scalable Backend Development | pytest | Unit Testing | Integration Testing | CI/CD | JWT | RabbitMQ | S3 | Swagger | Gunicorn | Uvicorn

## EXPERIENCE

**Quadrafort | Noida** **April 2024 – Present**

Backend Developer

- Engineered scalable backend services using Django and PostgreSQL, supporting 10,000+ daily active transactions in production.
- Led backend modernization by upgrading Python 3.8 to Python 3.13.3, reducing startup time by ~20% and enabling use of modern features.
- Designed and implemented secure payout architecture including PAN verification, Aadhaar verification, bank account onboarding, and automated bank transfers via Cashfree Payout API.
- Built transaction lifecycle management system with validation, retry mechanisms, reconciliation logic, and audit logging.
- Re-architected Firebase Cloud Messaging notification system for high-throughput event-driven processing.
- Improved API response time by 30% (from ~800ms to ~560ms) through PostgreSQL query optimization, strategic indexing, and query plan analysis.
- Integrated Salesforce CRM using SOQL-based data synchronization.
- Containerized backend services using Docker and deployed on AWS EC2, reducing environment setup time and ensuring consistent staging-to-production parity.
- Wrote unit and integration tests using pytest, maintaining test coverage across critical payment and verification flows.

**Trinity Mobile App Lab, Noida** **July 2023 – April 2024**

Backend Developer

- Developed and deployed production-grade RESTful APIs using Python and FastAPI, integrating ML inference pipelines for telecom incident prediction using Time Series and KNN models, reducing manual triage time by 40%.
- Designed backend architecture and PostgreSQL schemas for a secure payroll system serving 500+ employees, implementing JWT-based authentication and role-based access control.
- Managed Linux-based VPS infrastructure, handling application deployment, server configuration, and backend performance optimization for reliable production environments.

## PROJECTS

**Ashirvad Pipes – Backend Modernization & Payout Platform** **April 2024 – Present**

- Designed end-to-end payout backend system handling identity verification and automated disbursement workflows.
- Implemented distributed task processing using Celery and Redis, handling 5,000+ async payout and notification jobs daily.
- Improved asynchronous processing throughput by 3x through task queue optimization and worker pool tuning.

**MakeMyTrip – MSSQL to Salesforce Data Synchronization** **Aug 2024 – Nov 2024**

- Built automated data pipeline between MSSQL and Salesforce CRM, syncing 100,000+ records on scheduled batch runs with 0 loss.
- Designed scheduled Celery background jobs for batch data synchronization.
- Containerized services using Docker for scalable deployment.

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering** **Aug 2019 – May 2023**

GLA University, Mathura

- Specialization in Artificial Intelligence and Machine Learning.

## ACHIEVEMENTS

- Solved 300+ Data Structures and Algorithms problems across coding platforms.
- Upgraded a legacy Python 3.8 production codebase to Python 3.13.3 with zero downtime.
- Implemented end-to-end KYC + payout flow (PAN, Aadhaar, bank onboarding) from scratch using Cashfree API.