Kartik Vyas

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Experience

Blinkit - Software Development Engineer

Gurugram, HR

Cost Management System

August 2024 - Present

- Architected and developed **cost calculation and attribution system** for fleet operations managing **INR 250+ crores in logistics costs** (4% of company revenue), leading to annual savings of INR **3+ crores**
- Designed Kafka driven modular and idempotent system architecture using several design patterns
- Onboarded Hyperpure as new tenant and implemented multi-tenure cost optimization strategies
- Created Cost Simulator to allow ground team experimentation and manually approve trips
- Integrated Celery driven CRONs for tenure based cost settlements and used Redis to avoid race conditions

Fleet Management

- Developed Distance Regulation system to standardize 15K+ node-to-node mappings across the country
- Built Tolls Management platform using Google Routes API managing 60K+ toll mappings
- Implemented Vehicle Management module enabling easy onboardings of 5K+ vehicles with tenure-based truck type and vendor selection workflows using Python and Django
- Enriched Vendor Rate Card system using Celery supporting multiple billing tenures and vehicle types with bulk upload, removal and approval functionalities, reducing ops team manual effort by 90%

Driver Onboarding

- Engineered identity verification pipeline using Django and Kafka integrated with third-party services and Gemini AI for automated and manual quality checks
- Implemented step-based workflow backend and automated re-evaluation triggers upon suspicious activities
- Successfully onboarded 15,000+ drivers while maintaining security standards (200+ blacklisted)
- Integrated AWS Cognito and Lambda for serverless authentication and OTP functionality

Technologies Used

• Python, Django, Kafka, Redis, Celery, PostgreSQL, React JS, AWS, GraphQL

Morgan Stanley - Software Development Engineer and Intern

Bengaluru, KA

Trading Applications

July 2022 - Aug 2024

- Sole contributor for orchestration layer architecture in multi-tenant trading platform using Spring Boot
- Developed microservices for downstream data aggregation supporting order creation and status management
- ullet Built database synchronization tool improving legacy-to-modern data consistency by 5%
- Created AI-powered technical solution generator using OpenAI APIs for business problem resolution
- Built a Trading application in a Hackathon, achieving top 10% performance in project simulations among peers

Summer Internship

May 2021 - July 2021

• Developed Policy Networking Tool, a greenfield web application serving 1K+ Financial Advisors and integrated stored procedures and RESTful APIs via Spring JDBC

Technical Skills

Languages: C++, Java, Python, C, TypeScript, HTML, CSS, SQL

Frameworks and Databases: Django, Spring Boot, PostgreSQL, MySQL, ReactJs, , GraphQL, REST, Microservices Tools: Kafka, Celery, Redis, AWS (Cognito, DynamoDB, S3, Lambda, SQS), Zookeeper, Docker, Git

Education

Indian Institute of Technology Jodhpur

June 2018 - May 2022 8.23 CGPA

B. Tech in Computer Science and Engineering

Achievements

- CodeChef 4 Stars[1917] and CodeForces Expert[1714] and Global Round 10 Rank 732/11678
- JEE Advanced 2018 2929 Rank [top 0.2%]