

# SHIVANG

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## Experience

### PhonePe

*Senior Software Engineer*

November 2022 – Present

Bangalore, Karnataka

- Working in the EDC team at PhonePe which facilitates Card / DQR transactions in PhonePe POS machine along with EDC POS terminal management.
- Implemented the core written transactional, chargeback, and reconciliation flows for EDC (Electronic Data Capture) within the PhonePe ecosystem. This encompassed the comprehensive design and deployment of Card, Dynamic QR (DQR), and Refund transactions originating from the Point-of-Sale (POS) device. Furthermore, developed robust flows for processing customer-initiated chargebacks.
- Owning entire EDC transactional system with peak scale of around 200 rps during normal traffic which raised to around 400 rps during reconciliation
- Worked on the migration of the complete EDC transactional data, transitioning from 2 to 16 shards. Optimized slow database query patterns by implementing targeted data querying within specific shards. This migration successfully processed 200 million database rows within a 30-minute window, resulting in an approximate throughput of 1000 requests per second (rps).
- Contributed to the integration with Hyderabad Metro to facilitate National Common Mobility Card (NCMC) transactions using EDC devices. Designed and developed various transaction flows, including NCMC card Top-Up, balance updates, offline sales transactions, and other non-financial transactions such as pass creation and card reading. Furthermore, coordinated successful online implementations among multiple stakeholders, including the metro authority, the bank, and PhonePe.
- Working on the integration of EMI functionality with MSwipe for transactions done on an EDC device, involving the retrieval and storage of bank-specific EMI plans within a dedicated catalogue service. This supports the presentation of the EMI breakup summary to users. Furthermore, involvement extends across various facets of the transaction lifecycle, encompassing the conversion of standard transactions to EMI, their subsequent settlement with the merchant, necessary dashboard modifications, and the reconciliation process with partner banks.
- Worked on designing of onboarding/cancellation flows of EDC device from different vendors which involved deployment of EDC device to the merchants and their cancellation in case Merchant faces any issue.

### PhonePe

*Software Engineer*

July 2021 – November 2022

Bangalore, Karnataka

- Worked at Money management team at PhonePe which facilitates online and offline Merchant settlement, bookkeeping, creation of GST invoice and reconciliation.
- Worked on real-time GST invoice generation which is being used in Soundbox GST billing, AD billing and EDC billing leading to a scale of around 150 rps
- Created fee reversal flow through which merchant commission is reversed despite frequent data truncation.

### OYO rooms

*Software Engineer Intern*

Jan 2021 – July 2021

Gurgaon, Haryana

- Worked in the globalsearch team at Oyo which facilitates in searching user queries regarding hotel booking and displaying hotel listing page.
- Created a Dashboard in django which analyzes search analytics data. Worked on adding filter on filter page. Also implemented the HMD (Hotel meta data) service which populates hotel meta data (which comes from the supply team via kafka) into ES database

## Education

### NIT Patna

*Bachelor of Technology in Computer Science*

July. 2017 – June 2021

CGPA - 8.03

## Technical Skills

**Languages:** Java, Python, SQL

**Developer Tools:** IntelliJ, DBeaver, ChatGPT, CoPilot, Gemini

**Technologies/Frameworks:** RabbitMQ, Kafka, MariaDB, Dropwizard, SpringBoot, Airflow, Hibernate, .NET