

# Aryavardhan Singh Shaktawat

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## Technical Skills

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**Languages:** TypeScript, Dart, Java, C++, SQL, HTML, CSS

**Libraries and Frameworks:** Flutter, Node.js, Express.js, Spring Boot, React.js

**Tools and Databases:** Firebase, GCP, Firestore, Millsearch, BigQuery, MongoDB, PostgreSQL, Redis, Agile, Git

## Experience

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### Enrich Beauty - Software Development Engineer

Nov 2022 - Present

Bangalore, India

Revenue Management System

- Architected **comprehensive revenue synchronization system** using **Firebase Functions**, processing invoices, credit notes, and orders across multiple business systems with real-time data consistency
- Implemented **multi-system data integration pipeline** synchronizing revenue data to **BigQuery**, store and employee revenue dashboard with **automated failure handling and retry mechanisms** achieving 99%+ synchronization accuracy
- Built **scalable scheduled job system** using **cursor-based pagination** for efficient large-scale data processing with comprehensive business logic validation

Vendor & Warehouse Management System

- Designed and implemented **vendor management system** with **vendor creation, product mapping, and trade terms management**, integrating with **BigQuery** for real-time data synchronization and **automated MRP updates** upon GRN creation via **Pub/Sub messaging**
- Architected **end-to-end e-invoice/e-way bill solution** including **Webtel integration**, backend processing, and **Flutter dashboard UI** for generating compliant Excel files with **150+ validation fields, state codes, and GST calculations**
- Implemented **shipment tracking system** with **5-stage workflow**, including **picker assignment APIs** and developed complete **Flutter UI** for warehouse staff to pick and scan shipments
- Enhanced system reliability by integrating **Microsoft Teams webhook** for failed operations

Fortune Wheel Rewards System

- Developed **dynamic fortune wheel system** using **Flutter and Firebase Functions backend**, implementing **dual-wheel configuration** with location-based wheel and reward configuration
- Built **custom reward distribution algorithm** with weighted probability calculations and robust concurrent request handling system using Firestore transactions, ensuring data integrity and preventing race conditions during high-traffic periods
- Integrated **reward management** with daily tracking, special reward constraints, and automated reward processing and points crediting, resulting in **1.5x target engagement and 5% increase in average order value**

Dynamic Retail App Homepage

- Led development of **dynamic Slot system** using **Flutter** with 5+ widget types (carousel, horizontal list, vertical list, grid, column) and **Firebase Remote Config** integration, enabling real-time content updates and seamless backend synchronization supporting dynamic content management
- Architected **in-house serialization/deserialization system** with **ISAR database integration**, optimizing homepage data retrieval from Firestore and reducing API calls through caching mechanisms

### Reliance Jio Platform - Software Development Engineer

July 2022 - Oct 2022

Mumbai, India

Jio Health Team

- Added complete caching layer in WhatsApp-integration microservice using **Redis Sentinels**, improving performance for JioHealth WhatsApp-bot users
- Introduced **Pub/Sub (Azure ServiceBus)** mechanism for multiple microservices to communicate with the PME

## Education

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Indian Institute of Technology Jodhpur

June 2018 – May 2022

B.Tech in Electrical Engineering