

# Pranjal Gore

Senior Software Engineer, Falabella | Ex-Samsung  
M.Tech in Comp Sci, Veermata Jijabai Technological Institute (VJTI), Mumbai

## RELEVANT EXPERIENCE | 6+ Years

### Falabella

South American E-commerce Giant

Senior Software Engineer

March 2021 - Present

- Core Order - Microservice responsible for customer actions like placing orders, cancelling orders, returning orders, processing refunds, managing status updates of orders etc. This is a mixture of Event Driven with RESTful API Design

#### Design Contributions

Handled cross cutting concerns like obfuscating/removing sensitive information from getting logged using Aspect Oriented Programming

Mapped the functional requirements to an existing system flow with minimal modifications. This allowed for code reuse, reduced effort, and a very fast turnaround time. As a result, the Jira Epic was reduced to a Jira Task

Java 17 | Spring Boot | Hibernate | Resilience4j | Postgres | K8S | Docker | Helm | Pubsub

- Seller Order - Microservice responsible for seller actions like accepting/rejecting the return, handling seller cancellations and managing status updates for critical events

#### Design Contributions

Implemented component segregation for the forward and return journey of the order. This resulted in clean, concise code that was easy to understand and work with. The clear component boundaries allowed the team to work on both components in parallel without causing merge conflicts

Designed a pluggable event locking mechanism that was helpful in avoiding concurrency issues and in processing huge inflow of events. Additionally, it highlighted the events which were "Locked" when getting processed which also worked as a ready reference about the behaviour of the events avoiding any confusion in the team

Java 17 | Spring Boot | Hibernate | Postgres | K8S | Docker | Helm | Pubsub | Event Driven

- State Machine - A Finite State Machine implementation totally event based capable of handling ahead of time events and zero-code configurable. Can be deployed as a service or can be imported as a maven dependency

#### Design Contributions

Designed a database-backed distributed locking mechanism to prevent concurrency issues, significantly enhancing the system's robustness. This intelligent mechanism detects requests that might cause concurrency problems, locks them, and allows other requests to be processed in parallel

Designed Lifecycle Hooks that can be implemented by consumers to add their own business logic at specific points in the lifecycle of the state change journey

Spring Boot | Java 17 | Hibernate | Spring Integration | Postgres | Event Driven

- Bigquery ORM for Java - Designed and implemented java library that acts as an ORM for Bigquery. Uses reflection to read JPA Annotations from Entity classes and is capable of generating simple and join queries at runtime

#### Design Contributions

Implemented a layering design approach with configurations in one layer and logic in one layer with another layer for interfacing with bigquery. Used patterns like Dependency Injection, Factory pattern, Separation of Concerns, Runtime Polymorphism

Integration design specification was to use this starter kit as a maven dependency in other Spring Boot applications. Added `@BigqueryTable` class level annotation to tell the starter kit which tables are candidates for generating the queries

Java 11 | Bigquery | Java Reflection | Java Generics | Dependency Injection

## CONTACT

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## SKILLS

### Languages

Java 11, 17

Javascript

Python

Shell Script

### Backend

Spring Boot

Hibernate

Resilience4j

Flyway

GraphQL

Swagger

Nodejs

Testcontainers

Gradle

Git

### Frontend

Reactjs

Redux

React Native

Expo

SQLite

### Google Cloud Services

Kubernetes Engine

Cloud Functions

Bigquery

Pubsub

CloudSQL

Cloud Storage (Buckets)

Secret Manager

### Database

Postgres

MySQL

### Containerization

Docker

Kubernetes

Helm

Istio

### CI/CD

Gitlab

Circle CI

# Samsung Research Institute, Bangalore

Largest Samsung R&D Center outside of South Korea

Senior Software Engineer

May 2019 - Feb 2021

- SNMP Simulator - Simulators for Juniper/Cisco switches that can mimic the SNMP and NETCONF behaviour of a real switch. It can have a configurable topology between the devices. The simulator consisted of a uniform set of commands that enabled the user to work with any of the simulators consistently

## Design Contributions

Designed and developed a wrapper framework that unified all simulators under a consistent interface. This allowed both existing and new simulators to be used easily, with a standard set of commands and error handling. The framework also enabled integration with other applications, and successfully integrated three simulators using it.

Shell script | python | snmp v2, v3 and netconf protocols

- Software Defined Networking - An SDN project that uses software-based controllers or application programming interfaces (APIs) to communicate with underlying hardware infrastructure and direct traffic on the network. This was written in the OSGi framework and Distributed Systems. Low Level Design and implementation ownership of SNMP v3 protocol plugin using

Java 11 | OSGi framework | Buck Build Tool

## Mosambee

Fintech based out of Mumbai recently acquired by Pine Labs

Software Engineer

Sep 2017 - April 2019

- CLEO - A loan collection system for small and medium scale enterprises. Integration with Axis Bank Web Collect and Credit API for sending and receiving UPI Payments, Bharat QR and UPI generation

Spring Boot | Java 11 | Hibernate | Authentication using JWTs | ZXing for QR Generation

## EDUCATION

- M. Tech, Veermata Jijabai Technological Institute (VJTI), Mumbai, 2017
- PG Diploma in Advanced Computing, CDAC ACTS, Pune, 2015
- BE Computer Science & Engineering, PES College of Engineering, Aurangabad, 2013

## TOP ACHIEVEMENTS

- Samsung Spot Award winner for top performance and initiative
- Appreciated by CEO of Mosambee as one of the top performing employees
- All India Rank 49 in CDAC common entrance test
- Maharashtra State Level Honor, Bharat Scouts and Guides

## Observability

Datadog

Grafana

Metabase

## Currently Learning

Micronaut Framework

Micronaut Data

Micro Frontends