

# Naman Gulati

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## EXPERIENCE

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### Software Engineer

Feb 2019 – Dec 2021

*LocoNav*

*Gurugram, Haryana*

- Delivering high-quality, robust production code for a diverse array of projects for multiple clients. Collaborated with engineers across teams to design and develop features in a fast paced startup environment.

### Senior Software Engineer

Dec 2021 – Present

*LocoNav*

*Gurugram, Haryana*

- Developed high performance, scalable data pipeline applications and APIs in an array of domains for clients like Deloitte, Mother Dairy, Jubilant Foods and many more.

## PROJECTS

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### EV Analytics System | *Java, gRPC, Kafka, TimescaleDB*

- Spearhead the implementation of ingestion and analytics microservices for detailed EV analytics in JAVA backed by gRPC, timescaleDB and kafka consumer and streaming APIs
- Provides detailed analytics and alerting on EV charging, cell temperature and deep discharge and excess charge
- Contributes in bringing business of thousands of dollars from clients like Jubilant foods and Pointo

### Vehicle Motion Status Detection | *Java, gRPC, Kafka, Redis, Websockets*

- Developed realtime motion status detection microservice for vehicles from IoT data
- Uses Kafka as data queue, redis as intermediate motion status store, gRPC for serving API and websockets to publish motion status updates to frontend
- Reduction in API latency of upto 50 percent over existing postgres based motion calculator

### Envoy Proxy API Gateway | *Envoy Proxy, Ruby, Capistrano, gRPC, Datadog, Prometheus*

- Implemented company wide API gateway for gRPC APIs
- Streamlines management of API traffic, loadbalancing, error logging, access logging, rate limiting, circuit breaking, outlier detection and health checking for various different gRPC api services
- 20x reduction in error rate during production deployment of gRPC services
- Provides detailed view of entire API traffic along with alerting on change in throughput and error rate through Grafana dashboards and Prometheus metrics

### Data Delivery System | *Java, Kafka, Prometheus, Redis, PostgreSQL*

- Designed and developed data ingestion and forwarding system built on top of RESTful java APIs, filtering and transforming data in kafka and forwarding transformed data to external clients like Map My India and Here-Maps via HTTP APIs
- Managed a scale of daily 500 million data points
- Generated business of thousands of dollars of a monthly basis
- Provides deep insight into characteristics of data points using prometheus monitoring and device counter service built using Redis and Postgres as data store

### DTC alert System | *Java, Ruby on Rails, Sidekiq, Kafka, PostgreSQL*

- Developed Diagnostic Trouble Code (DTC) alerting system to alert user on various diagnostic codes from vehicle's On-Board Diagnostics port
- Built on top of Kafka streams for detection of DTC events, delivery to Ruby on Rails service using Sidekiq background job processor as a queue and postgres for storage of events
- Allowed clients like Gomechanic for efficient prediction of oncoming potential vehicle problems and suggest vehicle repair/maintenance in advance

### Kafka Upgrade | *Kafka*

- Researched and carried out multiple options for upgrading production kafka cluster from version 2.3 to 3.3 without downtime
- Lead PoC and setup of mirrored kafka clusters
- Reduction in production kafka broker cpu and memory usage by 10 percent

### Java 17 Upgrade | *Java, Capistrano, Jenkins, Kubernetes, Docker*

- Carried out rollout of Java upgrade for 20+ microservice from version 11 to version 17
- Enabled dev teams to utilize enhanced Java 17 features like records and text blocks
- Lead to drop in overall memory consumption by 5-10 percent

### Trip Scheduler | *Ruby on Rails, MVC, Sidekiq*

- Developed a MVC feature using Ruby on rails for management of vehicle trips on the user platform
- Utilized Sidekiq for background creation of future trips
- Generated business of few thousand dollars from client Mother Dairy

## TECHNICAL SKILLS

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**Languages:** Java, Ruby, SQL (Postgres), JavaScript, HTML/CSS, bash

**Frameworks:** Apache Kafka, Elasticsearch, Apache Cassandra, Ruby on Rails, JUnit, Apache Airflow

**Developer Tools:** Git, Docker, Jenkins, AWS, VS Code, Sublime text, IntelliJ, Ansible, Postman, BloomRPC, JIRA, Kubernetes, Terraform, Maven

**Libraries:** Jackson, Guava, Junit, Mockito, Lombok, Rspec, Puma, Sidekiq, Active Record, Capistrano

**Databases:** PostgreSQL, TimescaleDB, Redis, Cassandra Elasticsearch

## EDUCATION

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**College of Engineering Roorkee**

*Btech, Information Technology*

Roorkee, Uttarakhand

*May. 2015 – June 2019*