



# Gagandeep Singh

## Staff Software Engineer

Having about 8 years of experience as a Software Engineer, I've been involved in multiple roles - leading sprint teams, interviewing & hiring people for multiple roles, coaching all levels of engineers for both product knowledge & tech stack, heavily reducing cloud spends, closely involved in leadership discussions for laying down long term organisational roadmaps. Apart from all these things, I still like to work as an individual contributor whenever I get time.

## Contact



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<https://gagan93.me>



West Delhi, Delhi, India

## Education

### B.Tech (CSE)

2011-2015

GGSIU (GTBIT, New Delhi)

### Sr. Secondary Schooling

2010-2011

CBSE (GHPS Vasant Vihar, New Delhi)

### Secondary Schooling

2008-2009

CBSE (GHPS Vasant Vihar, New Delhi)

## Language & Platforms

### Proficient

- Ruby on Rails
- Ruby, Rails upgrade
- Postgres
- Redis
- Git and Github
- Sublime/VSCode
- Microservices
- API design
- Rspec
- Outage handling
- Cloud cost & Optimization

### Knows decently

- Docker, docker-compose
- Kubernetes, kubectl, k9s
- HTML, CSS, Javascript
- UI/UX and Product sense
- LLD & HLD
- Extracting code as gems
- Automating tasks (eg. pre-prod/prod releases)

### Tools

- Ubuntu, AWS Linux
- Github/Bitbucket
- Jenkins, Nginx
- Datadog APM/Infra
- Prometheus/Grafana
- AWS (EC2, RDS, S3, VPC, ECR, Cloud watch, Lambda, Billing, etc.)

### Team skills

- Team management
- Hiring
- Mentoring
- Onboarding

## Skills

- Problem Solving
- Working under pressure
- Delivering quality product
- Critical thinking & attention to detail
- Strong written and verbal communication skills

## Spoken Languages

- English
- Hindi
- Punjabi

## Experience

### Staff Software Engineer - Engineering Enablement

Jan 2022 - Present

LocoNav India Pvt. Ltd. | Gurugram, Haryana, India

- Involved in discussing overall global architecture of logistics based SaaS Product.
- Helped team to build micro-services by contributing to style guide and creating many gems.
- Took the first microservice out of a 6+ year old monolith, reducing a decent load from database.
- Built interfaces and assisted other teams to entangle the remaining monolith app.
- Handed over fastag product to junior team members and removed my dependency.
- Worked on reducing cloud spend by analyzing usage of servers and using other methods.
- Defined git branching and release strategy for a monolith that is worked upon by 40+ devs.
- Later, implemented end-to-end release process automation for the same repository.
- Collaborated with other teams as needed, and helped them adopting tooling built by us.
- Optimized API consumption from frontend, added caching on some client-facing APIs bringing visible impact to database and dependent services.
- Lead various other initiatives like removing huge chunks of dead code, managing minor/major database upgrades, docker builds speedup, test suite speedup, handling hot-fix and outage situations and managing overall website uptime.

### Staff Software Engineer - Payments and other products

Dec 2020 - Present

LocoNav India Pvt. Ltd. | Gurugram, Haryana, India

- Single handedly managed to upgrade monolith repo from Rails 4.2 to Rails 5.
- Scaled Fastag payments product from 0 to 2.5Cr daily transaction amount. This is almost 2% of India's total daily toll.
- Built and scaled payment gateway based wallet loading for fastag to 1Cr monthly transaction.
- Doing KT and offloading a few products to new team members, specially mobile API layer.
- Involved in hiring for multiple roles - Engineers, Sr. Engineers, EMs and Devops.
- Managing high level feature requirements and design for multiple products - documents and document reminders product, vehicle maintenance product, etc.
- Built a role based authorization system for the main fleet management platform.

### Member of Technical Staff

Feb 2018 - Dec 2020

LocoNav India Pvt. Ltd. | Gurugram, Haryana, India

- Simplified how the main entity of system (vehicle) is accessed by various components.
- Migrated Email provider to AWS SES with bounce/complaint list handling flow.
- Implemented multi-lingual, extensible push notifications backend architecture for mobile apps.
- Handling communications with different internal and external product teams independently.
- Wrote entire backend for mobile apps, that served > 80% traffic at that time.
- Worked as a Devops to handle a lot of tasks as the system was constantly growing. Eg. choosing machines as per load, writing lambda based automations, setting up our first Jenkins, hardening VPCs and moving a lot of infra behind private subnet, etc.

## Previous Experiences

• **Sr. Software Developer** at JTG E-Business Software Pvt. Ltd.

Oct 2016 - Feb 2018

• **Software Developer** at JTG E-Business Software Pvt. Ltd.

Jun 2015 - Oct 2018