

Contact

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Delhi, India

Education

B.Tech (CSE) 2011-2015 GGSIPU (GTBIT, New Delhi)

AISSC, CBSE 2010-2011 GHPS Vasant Vihar, New Delhi

SSC, CBSE 2008-2009 GHPS Vasant Vihar, New Delhi

Skills

Technical Skills

- **Primary Backend** Ruby on Rails
- Languages Ruby, Java
- Databases Postgres, Redis, Kafka
- Cloud AWS
- Frontend HTML, CSS, jQuery
- Operating System Ubuntu, Mac
- Containerization Docker, dockercompose, k8s
- **Proxy Servers** Nginx
- Monitoring tools Prometheus
- APM tools Datadog, NewRelic
- Git backends Github, Bitbucket

Other Skills

- Strong communication skills
- Hiring, onboarding, mentoring people
- Critical thinking & attention to detail
- Getting things done

Spoken Languages

- English
- Proficient
- Hindi
- Native
- Punjabi
- Native

Gagandeep Singh

Staff Software Engineer

Senior Engineer with 8+ years of industry experience specialising in end-to-end feature delivery, people management, sprint management, reducing cloud bills, and hiring (freshers, senior engineers, leads, and Devops). Possessing extensive expertise in backend development and AWS cloud services, I excel in building, improving, and scaling applications alongside the necessary infrastructure. My adeptness extends to both individual contribution and collaborative teamwork. In my current role, I am engaged in 40% individual contribution and 60% team management, overseeing a team of 6 developers and 1 QA specialist.

Experience

O Staff Software Engineer LocoNay India Pvt. Ltd.

Dec 2020 - Present Gurugram, Haryana, India (Remote)

- FASTag product
 - Started working from scratch, collaborating with external team and launched in record time. Worked as a developer, built a team, and later delegated completely.
 - Scaled from 0 to 2.6Cr of daily transaction volume (~2% of India's total volume).
 - Optimized bandwidth of internal teams by more than 40% by building bulk actions, customized internal products and workflows.
 - Partitioned the transactions table as system grew and transitioned to a microservice, improving speed of five slowest endpoints by more than 75%.
 - Owned complete data transition during product acquisition.
- Git branching and release automation
 - Defined release strategy for 6 years old monolith, worked upon by 40+ developers.
 - Initial strategy involved about an hour of daily commitment of a Sr. Engineer (rotated weekly). Automated this end to end, to eliminate this need.
- · Code and infra refactoring for background job cluster (sidekiq)
 - Refactored from 70+ queues to 5 queues for background processing, documenting best practices for all developers.
 - Was also able to eliminate servers in this process, saving 25% infrastructure cost.
- Optimizing workflows for internal business teams
 - Brainstormed and optimized processes for ground operation team and built custom workflows & automations to optimize their bandwidth by more than 30%.
 - o Currently working with dispatch & procurement teams to optimize their bandwidth.
- System upgrades and cloud cost optimizations
 - Single handedly performed one major framework upgrade and managed changes for two minor upgrades with the team for the monolith app.
 - Performed two major and one minor database upgrades using multiple strategies.
 - Managed cost reduction activity in late 2022 with Devops team saving close to 25%.

♦ Member of Technical Staff

Feb 2018 - Dec 2020

LocoNav India Pvt. Ltd.

Gurugram, Haryana, India (Hybrid)

- Refactoring core system entities
 - o Untangled how vehicles and users are accessed by 200+ reports and APIs.
 - Improved query performance and added caching, reducing database load by 10%.
- Mobile APIs, Push notifications, White labeling
 - Built entire backend API for mobile apps that served ~ 80% of total website traffic.
 - Built multilingual, extensible backend handling ~ 10m notifications daily. This also included support for multiple Firebase projects (for handling white labeled apps).
 - Implemented backend for white labeling apps for 100+ partners, released monthly.
- Communication, Marketing, Subscription Renewals
 - Implemented features like in-app notifications and blocking banners, etc. to drive multiple marketing needs and announcements.
 - Implemented first version of subscription renewal using blocking banners, collecting over Rs. 3.7L during COVID. This is currently handling a volume of ~ 3.2Cr annually.

Hobbies

- Music
- Writing blogs
- Reading books, blogs

· Improved stability of Email functionality

- Slowly moved ~ 150 kinds of emails to Amazon SES from a less reliable provider.
- Sent ~ 2 million emails daily and handled complaint lists using SES/SQS based setup.

Handled Devops work

- Completed Jenkins setup and moved all deployments to it slowly.
- Moved from single machine to multiple machines for the core monolith service as user base grew. Helped other teams to launch machines as per need.
- Created VPCs, subnets, configured security groups, simplified infra by creating private hosted zones, wrote some Lambda based automations.
- Created plan for EC2 reservations based on current usage and future projection.

♦ Senior Software Developer

Oct 2016 - Feb 2018

JTG E-Business Software Pvt. Ltd

Gurugram, Haryana, India

- Uptime Cloud Monitor (formerly CopperEgg)
 - Worked in a team of 4 and supervised 2 developers.
 - Integrated monitoring of Azure cloud products.
 - Planned and moved infrastructure from Classic EC2 to VPC in a phased manner.

♦ Software Developer

Jun 2015 - Oct 2016

JTG E-Business Software Pvt. Ltd

Gurugram, Haryana, India

- Uptime Cloud Monitor (formerly CopperEgg)
 - Worked on various small features and bugfixes primarily in Rails and Backbone JS.
 - Improved the box collector tool (written in C) to ignore docker network interfaces.
 - Documented various critical subsystems and scaled down multiple systems.
 - Hardened Redis security after a compromise activity on AWS and Linode clouds.