Gagandeep Singh

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Work Experience

Staff Software Engineer, LocoNav India Private Limited (Hybrid)

- Fastag Product
 - Led the formation and growth of a high performing team orchestrating end-to-end development of the product
 - Successfully scaled the system from inception to handle 2.6Cr daily transaction (2% of India's total toll volume).
 - Executed multiple iterations on internal products and implemented workflows, resulting in a remarkable 40% bandwidth optimization.
 - Pioneered the transition of critical components to a microservices architecture, achieving a 75% speedup in the five slowest endpoints.
 - Seamlessly managed complete data transition during the product acquisition phase, ensuring a smooth integration process.
- Git branching and release automation
 - Implemented release strategy for daily release of monolith app worked by 40 devs. Subsequently automated it to eliminate dev intervention.
- Code and infrastructure refactoring for background cluster
- Strategically reduced from 70+ to 5 queues based on latency/memory requirements, optimizing approximately 25% of infra costs.
- · Optimizing workflows for internal business teams
 - Brainstormed processes for the ground operations team to build custom workflows & automations, optimizing bandwidth > 30%.
 - Driving similar efforts for dispatch & warehouse teams to optimize the overall ground support work done by LocoNav.
- System upgrades and cloud cost optimizations
 - Solely executed a major framework upgrade and spearheaded subsequent changes for further upgrades in the monolithic app.
 - $\circ~$ Successfully completed two major and one minor version database (Postgres) upgrades.
 - Took charge of a cost reduction initiative alongside the DevOps team, resulting in a substantial 25% reduction in cloud costs.

Member of Technical Staff, LocoNav India Private Limited (Gurgaon Onsite / Hybrid)

- Planned and executed refactoring of core system entities, streamlining the access over 200+ reports and APIs.
- Improved query performance and added caching to reduce database load by 10%.
- Engineered a robust API layer for mobile applications, catering to over 80% of the total website traffic.
- Designed a scalable and multilingual backend system to seamlessly handle 10 million daily push notifications.
- Implemented in-app notifications and blocking banners to drive renewal and marketing initiatives.
- Integrated Razorpay payment links to drive renewals during COVID, collecting 3.7L in the first month, 3.2Cr annually.
- Efficiently migrated ~ 150 different kinds of emails from Sparkpost to Amazon SES implementing bounce handling for increased reliability.
- Worked as a devops to:
 - Setup the first jenkins for the organization to streamline deployments.
 - Transitioned from a single EC2 machine to load balancer based reliable architecture to meet the expanding user base.
 - Configured critical infra components like VPC, subnets, security groups. Introduced private hosted zones and Lamba automations.
 - Handled AWS EC2 reservations and saving plans based on current usage and future projections.

Sr. Software Developer, JTG E-Business Software Pvt Ltd (Gurgaon, Haryana)

- Led a collaborative effort within a 4-member team, overseeing the work of 2 developers for the Uptime Cloud Monitor Project.
- Successfully implemented comprehensive monitoring solutions for Azure cloud products, enhancing the product offering.
- Strategically planned and migrated infrastructure from AWS EC2 Classic to AWS VPC in a phased manner.
- Worked on the android app and resolved bugs in the "Issues" feature.

Software Developer, JTG E-Business Software Pvt Ltd (Gurgaon, Haryana)

- Played a pivotal role in the Uptime Cloud Monitor project, actively addressing and resolving various small features and bugs.
- Enhanced the Box collector tool written in C, by configuring it to intelligently ignore docker network interfaces.
- Diligently documented critical subsystems, providing comprehensive insights for team members and stakeholders.
- Strengthened Redis security after ransomware attack on AWS and Linode servers.

Skills

Language / Framework / Datastores: Ruby, Rails, Java, Postgres, Redis, Kafka, HTML, CSS, Javascript, Jquery Cloud / Servers / Containerization: Amazon Web Services (AWS), Ubuntu, MacOS, Nginx, Docker, Docker-Compose, Kubernetes Observability / Collaboration: Prometheus, Grafana, Datadog, NewRelic, Bugsnag, ELK, JIRA, Confluence, Slack, Github Team Skills: Team management, Stakeholder management, Setting team direction

Education

Bachelor of Technology (CSE), GTBIT AISSC, GHPS Vasant Vihar SSC, GHPS Vasant Vihar GGSIPU, New Delhi CBSE, New Delhi CBSE, New Delhi

Dec 2020 - Present

Feb 2018 - Nov 2020

Oct 2016 - Feb 2018

Jun 2015 - Oct 2016