SAURAV KUMAR

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Experience

Zepto **Bangalore**

Software Engineer II *September 2024 - Present*

- Developed the impersonation feature in the Brand portal dashboard, enabling internal users to view the dashboard as any external user. Implemented through a centralized service that stores impersonation configurations and modifies the context within the middleware. This helped resolve many issues before the customer asked leading to **10%** in SLA ticket.
- Developed Price Elasticity analytics dashboard with multi-tile visualization for brand insights, integrating **StarRocks** and Databricks data sources to deliver **200ms** query performance across **100+ million** rows.
- Built end-to-end contract management platform for Zepto-vendor partnerships with automated dashboard workflows and digital signature integration. Engineered high-performance API handling **150 RPS** with **50ms latency** for real-time margin calculations using precedence-based contract resolution across SKU, brand, city, and category levels.

BrowserStack **Mumbai**

Senior Software Engineer *April 2022 - Present*

- Developed centralized data **archival pipeline** with recovery option, implementing cron job to archive **5GB** daily production data and monitoring subscription changes in **Redis**.
- Led transition from monolithic to **microservice** architecture with zero downtime, achieving **50%** latency reduction for **400K req/hr** handling **20k** terminals.
- Built **Kubernetes** CI/CD infrastructure for microservices on **EKS** using **Ansible, FluxCD, Jenkins**, later implementing **ArgoCD** for rollback functionality.
- Migrated **190GB PostgreSQL** database to **MySQL** in production using AWS DMS with 1-minute downtime, optimizing DMS performance for DB load management.
- Developed pipeline for storing customer test data (**1TB**) using **REST API** and **Kafka**, optimized MySQL queries to handle **2.5K QPS** through InnoDB engine research.

BrowserStack **Mumbai**

Software Engineer *Aug 2020 - March 2022*

- SpeedLab team member developing performance insights tool for websites across mobile/desktop browsers using **Nodejs, Ruby, Bash, Swift**.
- Reduced mobile device session error rates from **40% to 3%** by addressing **ADB** issues, device stability, and optimizing open-source tools like SiteSpeed and Lighthouse.
- Created iOS workflow activating Paint Timing API using XCUItest framework, implementing highly requested customer feature leading to **20% increase in Speedlab** sessions.
- Integrated LaunchDarkly feature flag system with fallback mechanism and cost-effectiveness, currently handling **7K req/sec** with zero single points of failure.

Relevant Skills

Tech Stack: GoLang, Java, Nodejs, Ruby on Rails, JavaScript, SQL, Postgres, MongoDB, Ansible, Nginx, Kafka

Tools: Docker, Redis, Kubernetes, Jenkins, AWS (EC2, EKS, S3, Route53, AuroraDB, DMS)

Proficiency: REST APIs, Microservices, CI/CD pipelines, Database Management

Interests: Backend development, DevOps, Distributed Systems

Projects

GoDrive

github/goDrive

- Command line tool for uploading files to Google Drive using **OAuth2.0** authentication built with **Java, Maven, JavaScript**.
- Standalone server hosted on **Heroku** for access and refresh token management using user auth codes.

Education

Army Institute of Technology **Pune**

Bachelor of Technology - GPA: 8.9 *July 2016 - June 2020*