Saurav Kumar

Experienced Software Developer adept in bringing forth expertise in the design, development, testing, and maintenance of software systems. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

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WORK EXPERIENCE

Senior Software Engineer Browserstack

04/2022 - Present

Mumbai

Achievements/Tasks

- Orchestrated the transition of a core service from a monolithic structure to a separate microservice with no downtime. This led to a 50% reduction in API latency of 400K req/hr for allocation, deallocation, and cleanup of 20k terminals.
- Created a Kubernetes CI/CD infrastructure for microservices on EKS using Ansible, FluxCD, and Jenkins, starting from the ground up.
- Employed AWS Data Migration Service to efficiently migrate a PostgreSQL database of approximately 190GB to MySQL in a live production environment, achieving minimal downtime of just 1 minute. Additionally, optimized DMS performance to manage DB load during the process.
- Played a key role in developing a pipeline for storing customer test data in a central data platform (1TB) using REST API and Kafka ingestion. Enhanced database query performance to manage a load of 2.5K queries per second (QPS).

Software Engineer

Browserstack

07/2020 - 03/2022 Mumbai

Achievements/Tasks

- Member of the SpeedLab team, a tool designed to provide performance insights for websites across mobile and desktop browsers. Skill involved Ruby, Nodejs, Bash and Swift.
- Reduced mobile device session error rates from 40% to 3% by addressing various issues related to ABD, device stability, and optimizing our use of open-source tools like SiteSpeed and Google's Lighthouse.
- Successfully single-handedly integrated LaunchDarkly (a feature flag system) into our system, widely adopted by developers due to its robust design, including a fallback mechanism and cost-effectiveness, avoiding single points of failure. Currently our LaunchDarkly architecture is resolving flags at over 7K req/sec.

EDUCATION

Army Institute of Technology, PuneBachelor of Engineering, Computer Science

07/2016 - 06/2020 8.9 CGPA

SKILLS



PERSONAL PROJECTS

GoDrive (06/2020 - 07/2020)

- A command line tool to upload files to user's Google drive account using google OAuth2.0 for authenticating users and getting auth code.
- Standalone server hosted on Heroku to get access and refresh token using the auth code of the user.
- Build using Java, maven and Javascript.
- Github link: https://github.com/svkrclg/goDrive.

MemeShop (05/2021 - 06/2021)

- Android app to search, edit, and download memes. It was built on Android Studio and published in the Play Store.
- Python HTTP server was hosted on AWS EC2, meme template image was stored in S3 and meme details stored in dynamoDB.
- Github link: https://github.com/svkrclg/memers.
- Play store link: https://play.google.com/store/apps/details? id=com.rival.canvasmeme.

AlgoView: Pathfinding and sorting visualizer (08/2020 - 09/2020)

- App to Visualize the basic algorithms of pathfinding (Breadth-First Search, Depth- First Search, A-star search, Dijkstra's) and sorting (Merge Sort, Heap Sort, Bubble Sort, Selection Sort, Quick Sort Insertion Sort) with animation.
- Control the animation with seek-bar, increase/decrease the speed of the animation.
- Github link: https://github.com/svkrclg/AlgoView .
- Playstore link: https://play.google.com/store/apps/details? id=com.rival.algoview.

MEDIUM BLOGS

Building HTTP server (from scratch)

https://medium.com/@svkrclg/building-http-server-from-scratche7f47dd93e6c

gRPC Load balancing using Envoy

https://medium.com/@svkrclg/grpc-load-balancing-using-envoye8972214da2c

LANGUAGES

English Full Professional Proficiency Hindi

Full Professional Proficiency