Saurav Kumar
Senior Software Engineer

Experienced Software Developer adept in bringing forth expertise in the design, developing, 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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EDUCATION

Army Institute of Technology, Pune
Bachelor of Engineering, Computer Science

07/2016 - 06/2020   *8.9 CGPA*

Saint Joseph School, Bhagalpur (Bihar)
Intermediate

06/2013 - 04/2015   *89%*

WORK EXPERIENCE

Senior Software Engineer
Browserstack

04/2022 - Present   *Mumbai*

Achievements/Tasks

- Worked on splitting out a service from a **monolithic** to a separate **microservice**.
- Achieved the migration with **no downtime**, handling over **400K req/hr** and managing the allocation, deallocation and cleanup of over **20K terminals**.
- Worked on **kubernetes** setup of the microservice in EKS with and without **FluxCD**.
- Utilized AWS DMS to seamlessly transfer **~190GB PostgreSQL** DB to **MYSQL** DB in live production, achieving minimal 1-minute downtime while optimizing DMS performance and DB load.
- Worked on making our central Testinfra production **AWS RDS** database fault tolerant and highly available.

Software Engineer
Browserstack

07/2020 - 03/2022   *Mumbai*

Achievements/Tasks

- Part of the **SpeedLab** team which is a tool to get performance insight of websites in a mobile and desktop browser.
- Brought down the error rate in mobile sessions from **40% to 3%.**
- Contributed to **open-source** tools such as **SiteSpeed** and **Lighthouse**(**Google**).
- Planned out integration of **LaunchDarkly** (a feature flag system) into our system. Got widely adopted by our devs because of its robust design avoiding **a single point of failure, having a fallback, and being cheap**. Currently resolving flag at over **7K req/sec**.

SKILLS

MySQL   Git   Docker   NodeJS   Bash

AWS(EC2, EKS, S3, Route53, AuroraDB, DMS)

Kubernetes   Redis   Ruby on Rails   Nginx

Ansible   Jenkins

PERSONAL PROJECTS

GoDrive (06/2020 - 07/2020)
- A command line tool to upload files to Google drive account.
- Uses 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.
- Build on android studio and published in the play store.
- Python HTTP server hosted on AWS and meme template image stored in S3.
- 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 .

LANGUAGES

English
Professional Working Proficiency

Hindi
Full Professional Proficiency