

SASHANK AGARWAL

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA | Los Angeles, CA May 2025 (expected)

Master of Science in Computer Science (MScS) | GPA: N/A

Relevant Courses: Analysis of Algorithms, Database Systems

RAMAIAH INSTITUTE OF TECHNOLOGY | Bangalore, India August 2020

Bachelor of Engineering in Computer Science and Engineering | GPA: 3.96/4.0

Relevant Courses: Algorithms, Data Structures, Operating Systems, Distributed Systems, Web Technologies, Cloud Computing

SKILLS

Programming: Go/GoLang, Java, Python, NodeJS, Shell/Bash Scripting, HTML, CSS, JavaScript

Databases: MySQL, MongoDB, NoSQL, Firebase, PostgreSQL

Cloud Technologies: Kubernetes, AWS, OpenShift, Docker Containers, Elasticsearch, Prometheus, GCP, Networking (VPCs, subnets, load balancers, security groups), Security (IAM roles, Encryption), CloudWatch, CloudFormation

Miscellaneous: Git, GitHub Actions, Data Structures, Algorithms, Distributed Systems, Kafka, Redis, gRPC, Postman, ArgoCD, Jenkins, CI/CD, Open Policy Agent (OPA)

Core competence: Agile/Scrum, Problem-Solving, Detail-Oriented, Strong Teamwork, Communication

WORK EXPERIENCE

INTUIT | Software Engineer 2 | Bangalore, India June 2022 – July 2023

- Actively contributed to the Intuit Kubernetes Service team, taking charge of the efficient management of their cloud infrastructure and platform utilizing Kubernetes and Go, leading to a 15% reduction in infrastructure costs.
- Managed observability stack, including Prometheus metrics and Wavefront dashboards.
- Improved the availability and scalability of applications on Intuit's clusters by actively contributing to the open source project 'keikoproj', focused on alert-manager and active-monitor, resulting in a 20% decrease in system downtime.
- Automated functional testing procedures, resulting in a 40% reduction in manual testing effort and ensuring more reliable software releases using Jenkins CI/CD pipelines.
- Administered technical interview sessions to evaluate candidates' abilities and participated in a rotating weekly on-call schedule to offer assistance with the cloud platform.
- Technologies:* Go, Python, Kubernetes, AWS, Jenkins, ArgoCD, Wavefront, Shell Scripting, Open Policy Agent (OPA).

RED HAT | Associate Software Engineer | Bangalore, India

November 2020 - May 2022

- Actively oversaw the monitoring and alerting of large-scale logs in OpenShift, utilizing Elasticsearch, Fluentd, and Kibana for efficient log management, resulting in a 25% reduction in log processing time.
- Developed troubleshooting runbooks for Elasticsearch and Kibana alerts, reducing maintenance work for SREs by 20%.
- Developed and maintained the Loki Operator in collaboration with the Grafana team. Implemented key components such as auto-scaling, alerting, authentication, and authorization for Loki.
- Launched a storage calculator for Loki, predicting log volume in 24 hours and recommending resource requirements for the LokiStack, which led to a 15% reduction in unnecessary resource allocation and cost savings.
- Technologies:* OpenShift, Elastic Stack (EFK), Prometheus, Kubernetes Operators, Shell Scripting, Open Policy Agent (OPA).

ADDITIONAL COURSES

LinkedIn Learning: Go Essential Training, Learning Kubernetes, Learning the Elastic Stack, React: Creating and Hosting a Full-Stack Site, React: SPAs

PROJECTS

RIT Data Center December 2019

- Developed and maintained a college website generating dynamic reports and securely managing college data in a centralized database. Mainly utilized by the Principal and Professors from all departments.
- Link: <https://github.com/sasagarw/RIT-Data-Center> | Technology: HTML, CSS, JavaScript, Bootstrap, NodeJS, ExpressJS.

PG Diploma Website

September 2018

- Developed website for CSE department's course "PG Diploma in Big Data Analytics and AI".
- Link: <http://www.msritcse.in/pgd> | Technology: HTML, CSS, JavaScript, Bootstrap

ACHIEVEMENTS

- Elected as **Deputy of Technology** at USC AIS - overseeing the configuration of technical elements for events, resolving technical challenges, executing mass email communications, and maintaining the AIS website. August 2023 - Present
- Awarded **Star of the Quarter** for Q2-FY23 for showing **Technical Excellence** at **Intuit DevX**. March 2023