

SASHANK AGARWAL

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA | Los Angeles, CA

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

2025 (expected)

RAMAIAH INSTITUTE OF TECHNOLOGY | Bangalore, India

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

2020

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.
- Managed observability stack, including metrics and dashboards.
- Open Source Contributor to keikoproj, focused on alert-manager and active-monitor to ensure high availability and auto-scaling of applications across Intuit's clusters.
- Conducted technical interview rounds to assess candidates' skills.
- Technologies:* Go, Python, Kubernetes, AWS, Jenkins, ArgoCD, Wavefront, Shell Scripting.

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.
- Developed troubleshooting runbooks for Elasticsearch and Kibana alerts, reducing maintenance work for SREs.
- 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.
- Created a storage calculator for Loki, predicting log volume in 24 hours and recommending resource requirements for the LokiStack.
- Technologies:* OpenShift, Elastic Stack (EFK), Go, Prometheus, Kubernetes, Kubernetes Operators, Shell Scripting.

PROJECTS

RIT Data Center

Jan - Dec 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

PUBLICATIONS

Real Time DDoS Detection and Mitigation in SDN using ML Techniques [[paper](#)]

September 2022

- Real-time traffic analysis to detect and mitigate DDoS attacks in the SDN environment.
- Developed machine learning model for attack classification and application-level mitigation.

SKILLS

Programming: Java, Python, NodeJS, Go, Shell Scripting, SQL, MongoDB, HTML, CSS, JavaScript

Cloud Technologies: Kubernetes, AWS, OpenShift, Docker, Elasticsearch, Prometheus

Tools: Git, GitHub/GitLab, Gerrit, IntelliJ, VSCode, GoLand, PyCharm, Postman, ArgoCD, Jenkins

ACHIEVEMENTS

- Awarded **Star of the Quarter** for Q2-FY23 for showing **Technical Excellence** at **Intuit DevX**. March 2023
- Elected as **Chairperson** of IEEE RIT Student Chapter - responsible for leading 30+ IEEE Executive Committee members for organizing multiple technical fests, workshops, hackathons, and annual general meet. Jan - Dec 2019