Rahul Somasundaram

SENIOR DEVOPS ENGINEER

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Profile

Software Engineer with around 8 years of experience in the IT industry, specializing in cloud technologies and modern deployment methodologies. Proficient in developing and deploying applications using Kubernetes, Helm, and CI/CD processes. Possesses extensive experience with Azure for end-to-end deployment solutions. Collaborative and detail-oriented professional, committed to ensuring high availability and performance of applications.

Skills & abilities

- Microsoft Azure
- Docker
- Ansible
- Argo CD
- Mongo
- Java
- Node JS
- Cert-Manager
- Nginx
- Jenkins
- Linux
- Kubernetes
- Terraform
- Helm
- CI / CD
- MS-SQL
- Go
- Grafana-Loki
- Datadog
- Cloud Security
- Git
- GitHub Actions

Experience

Checkpoint Systems | Senior Software Engineer   **2022 - Present**

Responsible for creating, managing, and monitoring the infrastructure for the SaaS product, that processes millions of transactions per day.

Designed, built, and maintained infrastructure using Terraform as IaaC, which reduces the manual efforts of infra creation by 80%

Architected, configured, and administered Azure Kubernetes Service clusters.

Developed Kubernetes Operator and Helm charts for SaaS deployment, that simplifies the deployment process and makes It error free

Implemented continuous deployment workflows with Argo CD, that supports rolling upgrade, Blue-green Deployment methodologies that provide an uptime SLA of 99.9%

Established Azure Front Door and Nginx for global traffic load balancing, which provides Disaster Recovery, rate-limiting and DDOS Protection.

Monitored systems metrics using Datadog for proactive performance, SLA management.

Set up High Available Grafana Loki Stack as a Log Aggregator to collect all logs from all services.

Managing the distribution of Mobile Applications through the Google Play Store and Apple App Store

Setup On-Prem Kubernetes cluster using Talos for Dev, QA for Cost Optimization

Checkpoint Systems | Software Engineer II   **2020 - 2022**

Responsible for Creating Infrastructure, Deploying Applications and overseeing Configurations and Databases

Created infrastructure using Terraform.

Deployed and managed a SaaS application using Docker Swarm.

Implemented continuous deployment of application from source control using Ansible.

Installed and configured MongoDB replica sets using Ansible

Engineered a utility for synchronizing configurations between SCM and Zookeeper, for dynamic updates

Containerized an internal back-office application as a Docker image and automated its CI/CD using Gitlab CI and Ansible.

Conducted proof of concept for monitoring SAAS solutions using Datadog.

Gofrugal Technologies | Member Technical Staff   **2017 - 2020**

Designed and implemented a Messaging Service as a central hub for data exchange.

Developed a framework to synchronize customer business data to the cloud for reliability.

Engineered and implemented a CI/CD pipeline for streamlined application builds and deployments using Jenkins and Ansible

Contributed to development of a Master Import tool, enabling seamless customer data imports (such as inventory) into the POS system.

Education

Anna University   **2013 - 2017**

B. Tech Information Technology

Open-Source Contributions

Nginx Kubernetes-Ingress (https://github.com/nginxinc/kubernetes-ingress)

Added Custom Transport Server Template

NginxProxyManager (https://github.com/NginxProxyManager/nginx-proxy-manager)

Added provision to download generated SSL certificates.

AdGuardHome (https://github.com/AdguardTeam/AdGuardHome)

Introduced support for custom TLS algorithms, and resolved HTTP/3 header issues

Personal Projects

WebApp for Dad's Passion (https://www.stsimproveyourenglish.com)

Tech Stack: Angular, Google Firebase (Firestore, Hosting), Google Functions (Node.js)

Developed to share daily feeds and presentations.

Created a restricted portal for managing feeds, secured by Firebase Authentication.

Automated posting of daily feeds to a Telegram channel via Firebase Functions and telegram bot https://t.me/stsimproveyourenglish

Implemented web push notifications for subscribers using GCM. Automated CI/CD pipelines with GitHub Actions