Shrinidhi **Kulkarni**

SOFTWARE ENGINEER

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"Be the change that you want to see in the world."

Summary

My field of interest are systems,DevOps and research. I'm hard worker and a collaborative team member with leadership quality.

Work Experience

IBM   *Bangalore, India*

Staff Software Engineer   *July 2020*

- I have been working on planning,designing and configuring Cloud Object Storage on NextGen architecture. This project involves moving away from old architecture used in data centers and replacing the old architecture with new one.
- The NextGen project involves planning,writing automating and testing scripts while migrating from classic nodes/servers to nextGen using Ansible
- I have been architecting and automating the deployment a production ready kubernetes cluster using kubespray to containerise debian 10 as a step to move away the servers from debian 9
- I have implemented sysdig and logdna for monitoring the kubernetes clusters
- I'm regular participant in resolving most of the on-call incidents/emergency cloud incidents. I'm also part of IBM Cloud Satellite team where the goal is to provide Cloud Object Storage(COS) on customers "own infrastructure"
- Built and automated a customer experience dashboard which helps clients view their cloud usage
- Used,tested,modified the plugin developed by IBM research as a datasource to Grafana
- Automated Disk Replacement process of the faulty drives
- Contributed to IBM Cloud Documentation

BETSOL   *Bangalore, India*

SOFTWARE ENGINEER   *July 2017- July 2020*

- Architected, implemented, and automated DevOps for Betsol's second version of Leto (running Python, Bash, Linux, Docker, Docker-Swarm) that would support more than twice as many interactions per second, significantly improved infrastructure sc alability, and exponentially increase reliability and overall 'trust' in the platform as compared to the end-of-life legacy environment
- I have worked on deploying the kubernetes cluster(gke) on GCP with the help of terraform and helm
- Regularly involved in planning decision such as choosing cloud provider based on the cost and needs - AWS/GCP/Azure
- Monitored servers, implemented alert manager using Prometheus, Grafana and Alert Manager
- Filtered the logs, maintained them, displayed them using ELK stack and filebeat
- Used Gitlab CI/CD to make integration/build/deployment process easier
- Obfuscated the entire codebase to restrict access for others
- Maintained backups regularly, had zero data loss
- Zero downtime maintained for the product
- Implemented many Linux concepts like password-less root authentication, transferring files without prompts, scp,ftp etc
- Automated the deployment process using Docker Swarm, Ansible
- Implemented copyright using githooks
- Wrote extensive and detailed documentation to reduce new DevOps teammates' onboarding time measured by 'time to first commit or resolved issue'
- Worked on a product called Leto for integration and automation using Shell, Python, Docker, Django.
- Developed the backend of the second version of Leto using Node,Knex and Postgres.
- Built resume parser and a tool for speech analysis for the exam platform
- Made a chatbot using api.ai

Education

PES Institute of Technology,South Campus   *Bangalore, India*

B.E. IN COMPUTER SCIENCE AND ENGINEERING   *2013-2017*

Jain PU college   *Belgaum, India*

SENIOR SECONDARY (10+2)   *2011-2013*

Skills

- Linux Server, Windows Server
- Docker,Docker Swarm,Kubernetes,Nomad
- Git,Jenkins,Gitlab CI/CD, Github Actions
- Ansible,Terraform, Vagrant
- AWS,IBM Cloud,GCP
- Scripting:Python, Bash, Powershell
- JavaScript, NodeJS, Express,Django, React-Redux,C,C++,LaTex,Chatbots

Honors & Awards

2020	**Patent Applied**, Real Time Cloud Platform Mapping and Version Controlling	*Bangalore*
2016	**Runner-up**, SLAC Hackathon by Amrita University	*Bangalore*
2017	**Runner-up**, SLAC Hackathon by Amrita University	*Bangalore*
2015	**Finalist**, Inmobi Hackathon	*Bangalore*
2018	**Team Award**, Betsol	*Bangalore*

Projects

Real Time Cloud Platform Mapping and Version Controlling

Every company creates and maintains infrastructure diagrams for their usage. Updating and maintaining these changes to the architecture manually for every change is a huge burden, considering the complex infrastructure existing in established firms. The patent here addresses the same by dynamically generating architecture/infrastructure diagrams and layouts as soon as it is provisioned/modified.

Swift Auth

A chrome extension that implements2FA(Two-factor-Authentication) using face and voice recognition and also supports sharing of secure authentication links

Sordo Aid

Worked on an app that translates real time voice in a group conversation to text,helpful for deaf,with help of Microsoft Azure API.

Ad Blocker

Automatic TV Ad Blocker using Audio Fingerprinting.

Fake news detector

A chrome extension which goes through all the links in real time and verifies whether the post is original or not before clicking the link.

Extracurricular Activity

Effective utilisation of Chatbot

Wrote a blog on creating and utilising the Chatbot webservice in effective way. The blog was published by Chatbot's life.

https://chatbotslife.com/how-to-effectively-use-the-chatbot-b2b32c01382c

Oracle Client on Alpine Linux

Added Oracle Instant Client for Alpine Linux

https://medium.com/@davidcesc/oracle-client-on-alpine-linux-177835823b34

How I made deployments easier!

Made voice deployment for web-application

https://medium.com/@davidcesc/how-i-made-deployments-easier-69a77c468a4b

Obfuscation of the code

https://medium.com/@davidcesc/obfuscation-of-the-code-8086c9c8b34a

More Research and Blogs

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