

Karanjit Singh

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SKILLS

Computer Languages

- Golang, Python, Bash, SQL

Tools and Systems

- Docker, Kubernetes, Openshift, Git , Vim, MySQL, MongoDB

Libraries and APIs

- Google Cloud API, Kubernetes API, Jenkins API, Gin, Gorilla Mux, Flask(python)

Platforms

- Linux, OS X

WORK EXPERIENCE

March 2018 » Present

Software Developer

Kloud9 Technologies

- Developing API-driven micro-services that combine into large and complex platforms.
- Design and develop robust services that are in coordination with frontend developers ensuring the production and development of a high-quality and well-tested code
- Building and managing automated build/test/deployment environments
- Creating the REST APIs for Kubernetes, Jenkins, Google cloud
- Implement JSON Web Tokens (JWT)
- Implement Role Based Access Control (RBAC)
- Worked on kubernetes Custom Resource Definitions
- Worked on operator to collect metrics from kubernetes
- Working on Deployment tool which helps to automate deployment to GCP, AWS, Openshift, Kubernetes.

November 2015 » March 2018

Production System and Network Engineer

Flipkart Internet Pvt. Ltd.

- Development & implementation of automation solutions, processes and tools in support of the cloud lifecycle; including infrastructure & application uptime, availability, and performance monitoring
- Development of scripts/tools to ensure streamlined/automated application & infrastructure deployment
- Participate in development new program enhancements
- Develop programs and support production
- Participate in estimating, planning design, application development, implementation, modification and evaluation of automated systems
- Recommend solutions to enhance system functionality
- Work with team of engineers to develop and maintain the corporate, multi-region, private cloud
- Develop bare metal servers monitoring solution in golang and redis

April 2015 » November 2015

System Engineer

Brocade Communications system

- Develop and execute plans for monitoring of all systems and applications in the production environment to ensure optimum system performance and availability
- Created the Framework to monitor the Linux systems
- Responsible for effective provisioning, installation/configuration, operation, and maintenance of systems hardware and software and related infrastructure

January 2013 » April 2015

System Engineer

Suksh Technology Pvt. Ltd.

- Managing and maintaining the Users and Groups as well as File Permissions.
- Creating and maintaining file system under threshold, disk partitioning and troubleshooting
- Worked on Squid proxy server
- Automate daily tasks with python/Shell scripting

SOFTWARE PROJECTS

Multi Cloud continuous delivery platform :

Deploy across multiple cloud providers including AWS EC2, Kubernetes, Google Compute Engine, Google Kubernetes Engine, Google App Engine, Openshift. Create deployment pipelines that run integration and system tests, spin up and down micro-services, and monitor your rollouts. Trigger pipelines via Jenkins.

AI Driven Infrastructure :

Analyze the data pattern , demand trends and predict the infrastructure requirements which indicates the behavior of the system . Deploy the necessary resources as per workload requirements . De-allocating the resources when they are not needed anymore. Configure the infrastructure components.

Bare Metal Monitoring System :

This web application usages intelligent Platform Management Interface (IPMI) for hardware health monitoring and management system that defines interfaces for use in monitoring the physical health of servers, such as temperature, voltage, fans, power supplies and chassis

EDUCATION

Punjab Technical University | S B S Nagar, Punjab, India | B.Tech in Electronics & Communication Engineering 2012