A picture containing line, electric blue, blue, rectangle

Description automatically generatedA green pin with a white house on it

Description automatically generated with medium confidence

Digital Resume here

Rakesh Nagarajan

DevOps|Cloud|Platform

8 Years of Experience

[rakesh-nagarajan](https://www.linkedin.com/in/rakesh-nagarajan/)

[RakeshNagarajan](https://github.com/RakeshNagarajan)

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+91-9698490903

## Coimbatore, TN, India

## About Me

Currently working in Advanced Micro Devices[**AMD]** as *MTS Software development engineer* with nearly **8 years** of total experience in IT. I am a team player with team managing capability and have good debugging skills. Having interest in learning hot technology in short span of time. Sharing knowledge to the team with proper documentation. Providing on the go solution to the customers. Follow sprint properly on-time and providing on-time product delivery. Adhere to all security norms of organization. Also, I am interested in hosting training sessions and tech-talks inside team.

## Career Objective

To implement innovative ideas in an efficient way and to reduce manual effort.



S

## My Timeline

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Description automatically generated with medium confidenceA picture containing clipart, design

Description automatically generatedA black background with red text

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SSSS

2025

2012

2024

2016

2017

2018

2019

2020

2023

2022

2021

What next?

June-2012 to May-2016

B.E [E.C.E] with 79 %

June-2021 to till date (3yrs)

[Advanced Micro Devices (AMD)](https://www.amd.com/en.html)

Role : Devops /Cloud/SRE

Projects: DevCloud, Infra

Team : 7 [24\*5]

Location: Bengaluru, KA *(WFH)*

June-2016 to May-2018 (2yrs)

[Bahwancybertek](https://www.bahwancybertek.com/index.html#/)

Role : DBA/Devops

Clients : American towers

Team size: 4 [24\*7]

Location: Chennai, TN

May-2018 to June-2021 (3yrs)

[Robert Bosch](https://www.bosch.com/company/)

Role : Devops/Cloud

Projects: JMaaS, XaaS, BIaaS

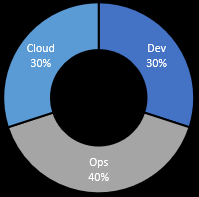
Team : 5 [24\*5]

Location: Coimbatore, TN

## Individual contribution

* Designed and developed a Self-service portal for project – **Saves 4 hours of manual work per day**
* Designed and developed an internal application with Django Rest API, VueJs and Kubernetes on premise for deploying any Docker application container (**XaaS - Anything as a Service**)
* Implemented efficient monitoring solution of servers and Docker logs using Grafana/promtail/loki – **saves debugging time**
* Automated Docker build with dynamic Dockerfile using Jenkins pipeline
* Automated oracle 12c Database installation using Ansible – **Saves 7 hours of manual work**
* **Imp**memented health Check Automation for SQL server using PowerShell and CSS – **Reduced manual work 3 hours per day**
* Upgraded on-premise Kubernetes from 1.17 to 1.18 to 1.19
* Migrated applications from on-premise to azure cloud
* Migration of on-premise kubernetes cluster to AKS with minimal downtime
* Gitlab to github migration including workflows
* Openstack deployment
* Architected and Developed a new application for infrastructure provisioning the internal project
* Managed Aruba switch for Openstack ironic

## Core Skills



 Awards

* RSU grant for helping other teams projects
* Best employee of the month
* Spot award for creating an internal application from the scratch
* Bronze award for Automating Jenkins version update for 250+ instance
* Travelled to Germany for short term

## Everyday Schedule

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A black circle with a letter i in it

Description automatically generated with low confidence

## Interest

* Technology
* Macro-economics

## Personal info

Date of Birth : 03-11-1994

Nationality : Indian

Gender : Male

Marital status : Single

Zodiac : Libra

Wakeup @ : 6 AM

## Hobbies

* Technology
* Youtube
* Listening Music
* Investment

## Languages

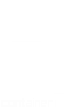
* Tamil
* English



|  |  |  |
| --- | --- | --- |
| **TECHNOLOGY/tools** | **Recently worked Version** | **My knowledge** |
| Kubernetes | V1.25 |  |
| Docker | 24.0.3 |  |
| Containerd | 1.7.2 |  |
| Microsoft Azure | - |  |
| Openstack | Zed |  |
| Docker Swarm | - |  |
| Helm | V3.12.1 |  |
| DTR/Harbor/ACR | 1.10 |  |
| Ansible | 2.12 |  |
| AWX - tower | 22.2 |  |
| Python | 3.11.5 |  |
| Django /channels | 4.2 |  |
| Github/Workflow | - |  |
| Gitlab/pipeline | 13.0 |  |
| Bitbucket | 7.8 |  |
| Hashicorp Vault | 1.14 |  |
| Jenkins | 2.270 |  |
| SonarQube | 9.9 |  |
| Splunk | 8.0 |  |
| Grafana | 10.0 |  |
| Loki | 2.8 |  |
| Prometheus | 2.45 |  |
| Jira | 9.4.2 |  |
| Confluence | 7.19 |  |
| hugo | V0.111.3 |  |
| Nexus | 3.37 |  |
| Rabbitmq | 3.12.1 |  |
| VueJS/vuetify | 3.3 |  |
| Celery | 5.3 |  |
| MinIO | 2023-06-23 |  |
| Sphinx | 7.0 |  |
| Opentelemetry | 1.18.0 |  |
| Jaeger | 1.46.0 |  |
| Terraform | 1.5 |  |
| NGINX ingress | 1.8 |  |
| Robot framework | 6.1 |  |
| Hyper-v | - |  |
| Kubespray | 2.22.1 |  |
|  |  |  |
|  |  |  |
| Mongodb | 6.0 |  |
| Oracle Database | 12c |  |
| SQL Server | 2016 |  |
| Postgresql | 15.3 |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Thanos | 0.28.1 |  |
| Ceph | Quincy |  |
| LVM | - |  |
| Keycloak | 21.1.2 |  |
| Openldap | 2.6.4 |  |
| Ollama | - |  |
| Lanchain/langgraph |  |  |
| Streamlit |  |  |
| Poetry |  |  |
| Typer(cli) |  |  |
| Llama2/3 and phi3 |  |  |

|  |  |
| --- | --- |
| Scripting/coding | |
| Dockerfile | ★★★★☆ |
| Docker compose | ★★★★☆ |
| Ansible-Playbooks | ★★★★☆ |
| SPL | ★★★☆☆ |
| LogQL | ★★★☆☆ |
| Jenkinsfile | ★★★★☆ |
| Kubernetes manifest | ★★★★☆ |
| Helm charts | ★★★☆☆ |
| Python scripting | ★★★☆☆ |
| PowerShell | ★★☆☆☆ |
| Shell scripting | ★★★☆☆ |



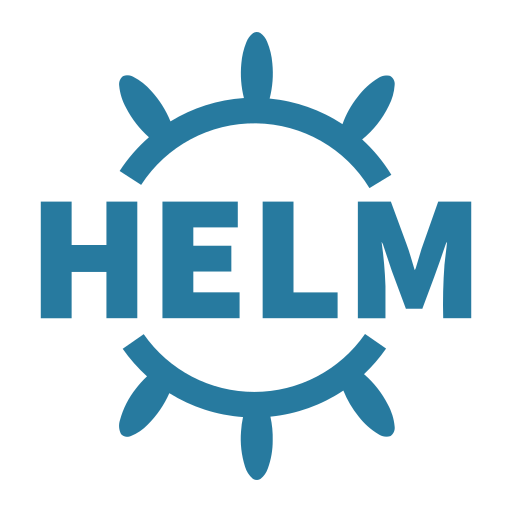


![A red and black square

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A picture containing watercraft, LEGO, ship

Description automatically generated





A black circle with a white letter in it

Description automatically generated with medium confidence

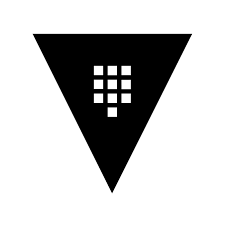






|  |  |
| --- | --- |
| System administration | |
| Linux administration | ★★★★☆ |
| Windows administration | ★★★☆☆ |
| Virtualization | ★★★★☆ |
| Containerization | ★★★★☆ |
| Container orchestration | ★★★★☆ |
| Firewall | ★★★☆☆ |
| Package manager | ★★★★☆ |
| Server logs analysis | ★★★★☆ |
| Server Monitoring | ★★★★☆ |
| Network switch | ★☆☆☆☆ |





















A blue and purple hexagon

Description automatically generated

|  |  |
| --- | --- |
| Azure Cloud | |
| VM | ★★★☆☆ |
| VM scale set | ★★★☆☆ |
| Monitoring | ★★★☆☆ |
| Alerts | ★★★☆☆ |
| storage account | ★★★☆☆ |
| App Service | ★★★☆☆ |
| Container service | ★★★☆☆ |
| DNS | ★★★☆☆ |
| Dev labs | ★★★☆☆ |
| Bastion | ★★★☆☆ |
| SQL server | ★★★☆☆ |
| CLI | ★★★☆☆ |
| Virtual networks | ★★★☆☆ |
|  |  |







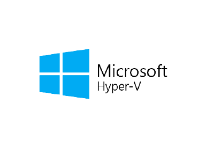












|  |  |
| --- | --- |
| Openstack Cloud | |
| Nova | ★★★☆☆ |
| Glance | ★★★☆☆ |
| Neutron | ★★★☆☆ |
| keystone | ★★★☆☆ |
| ironic | ★★★☆☆ |
| Horizon | ★★★☆☆ |
| Placement | ★★★☆☆ |
| Galera | ★★★☆☆ |
|  | ★★★☆☆ |
|  | ★★★☆☆ |
|  | ★★★☆☆ |
| Security groups | ★★★☆☆ |
| Openstack API | ★★★☆☆ |
| Openstack python sdk | ★★★☆☆ |



A red logo on a black background

Description automatically generated with low confidence





A blue square with black and black letters

Description automatically generated





|  |  |  |
| --- | --- | --- |
| **OS** | **FLAVOR** | **RATING** |
| Linux | RHEL and centos | ★★★★☆ |
| Alpine | ★★☆☆☆ |
| Ubuntu /Debian | ★★★★☆ |
| Windows | WIN server | ★★★★☆ |
| WIN | ★★★★☆ |



A picture containing circle, graphics, gear

Description automatically generated![A red and black square

Description automatically generated with low confidence](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAADoAAAAyCAMAAAA6Njh3AAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAASUExURQAAAO4XQOsYQu0YQ+saRO0ZRBCEAdEAAAAFdFJOUwAsdIr653O9eAAAAAlwSFlzAAAh1QAAIdUBBJy0nQAAAH5JREFUSEvtz1EKhTAMBdFWzf63bBpG/LCUNoIYyIH34SWDvqKOFS24MM2jUwzz6Bzl3fK4gjLTMcofpEw9XBimeGk4fL9h6uHCMGX6xIVhyvSJC8P0Jg2H7zdMPVwYptjpJMpMxyi/T2UTZypViqfVl+7+VKr+lv9uC7QTKScrXhqVWpHIrQAAAABJRU5ErkJggg==)

## Tools

VScode

Draw.io

Mermaid chart

Apache directory studio

## Devops

* Experience configuring and maintaining kubernetes cluster and working with PV, PVC, secrets, services, statefulset, namespace, deployment, ingress and other **K8s components**
* Implemented Velero and minIO for Kubernetes **cluster backup**
* Continuous monitoring of the entire **400+ containers** and **100+ servers** using Splunk and Grafana loki
* Having experience in working with Docker swarm cluster of 80+ production servers
* Experience in kind kubernetes cluster for local testing
* Developed custom resource definition
* Mermaid chart for flowchart
* Written custom helm charts for 18 applications
* Integrated Grafana API, Jenkins API , Splunk API with Django API
* Creating and maintaining Docker swarm, Docker volume/Network/Plugin
* Having real-time experience in configuring splunk forwarder/alerts/dashboards/SPL
* Creating and maintaining GIT/SOCO/TFS repository
* self hosted Github and gitlab runners
* Github enterprise administration
* Migrated gitlab pipeline to github actions
* Adapted pre-commit hook for code formatting automatically
* Secrets abstraction using vault - Dynamic credentials update
* Injecting secrets into k8s pods
* Having knowledge on LXC/LXD containers
* Configuring Jenkins slave and writing pipeline jobs for CI/CD
* Implemented django channels for WebSocket
* Implemented django channels for pushing live notifications
* Adaption of hugo and sphinx for documentation
* Implemented opentelemetry for distributed tasks
* Deployed multiple kubernetes cluster using kubespray
* Automated functional test using robot framework
* Metallb for load balancer in on-premise kubernetes cluster
* AWX for ansible

## Cloud

Deployed openstack zed version from scratch using Openstack-ansible

Customization of images using disk image builder

Developed openstack DIB custom elements

Extending openstack ironic inspection

Enrollment of Openstack ironic metal nodes

Deploying virtual machine and VM scale set with auto scale up and scale down based on resource

Designing Network security groups to handle inbound and outbound access to network interface

Creating resource group and virtual network along with subnet

Working with storage accounts – Blobs, disks

Experience in app service/container service and hosted web application public

Experience in azure container registry

Experience in tags, locks, security, logs, activity logs, monitoring and other components of service

Working with cloud shell and Azure CLI

Disk image builder for creating custom images for Openstack.

Creating a new DNS for custom application

Experience in handling Nova, Neutron, Zun, Glance, keystone, placement, Horizon services in **Openstack**

VBMC for simulating vm as metals

Galera cluster backup

Ceilometer

## System administration

* Installation and configuration of operating systems (Windows/ RHEL/ CentOS/Ubuntu)
* Sharing/configuring mount points Between Windows-Linux
* yum repository configuration (Local, Satellite, remote)
* Pushing **Security patches** in linux server’s
* Configuring NFS Storage/datastore for sharing the data
* Having Knowledge on KVM and QEMU for IaaS
* Monitoring server health and logs using Grafana Loki
* Experience with V-center and handling **VMDK volume**
* Ansible play-books for server management and Managing the Cluster configuration
* Ansible playbook for identifying wrongly attached VMDK volumes.
* Automated yum configuration/RMP installation using Ansible – **Reduces 3 hours of manual work**
* IPMI accessing servers
* SSSD for ldap connectivity to linux servers
* KVM for virtual machines creation
* Openldap and keycloak for local user creation and testing
* Rotation of SSL certificate
* Handling RHEL subscriptions

A computer server with a yellow circle

Description automatically generated

## Artificial Intelligence

Having experience in using local models llama2/3 and phi3 via ollama

Experience in designing multi-agent workflow using langgraph

Developed a RAG application for faster searching of documentation

Having experience in vector database and embeddings.

Signature

(RAKESH N)

A green and white phone logo

Description automatically generatedA colorful logo with a black background

Description automatically generatedA logo of a camera

Description automatically generated with low confidenceA blue and black logo

Description automatically generatedA blue circle with a white letter f in it

Description automatically generated with medium confidence

Find me on

All above given information were true. You can trust me.

Ready to relocate based on project demand.

Open to work in shift based on project demand.

Place : Coimbatore

Date :