

Rakesh Nagarajan

DevOps | Cloud | Platform
8 Years of Experience


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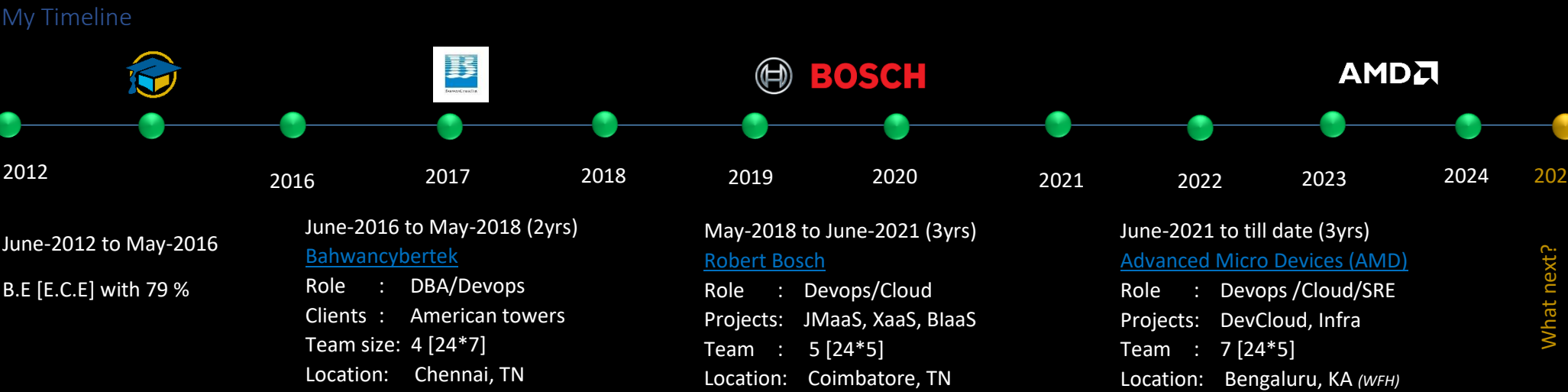
 Coimbatore, TN, India

 Career Objective

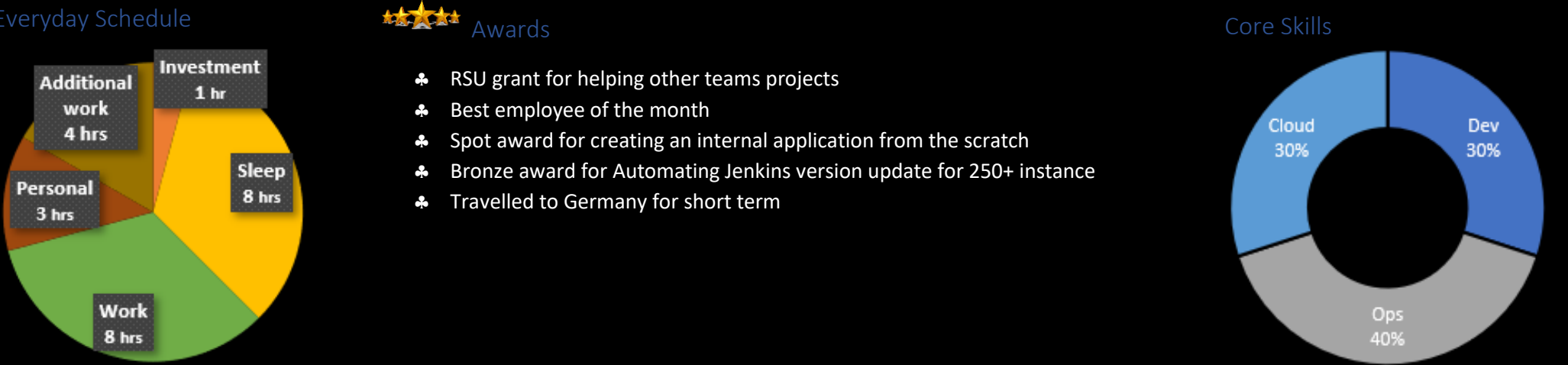
To implement innovative ideas in an efficient way and to reduce manual effort

About Me

Currently working in **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.



- 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**
 - ♣ **Impmemented** 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
 - ♣



 Personal info

Date of Birth : 03-11-1994

Nationality : Indian

Gender : Male

Marital status : Single

Horoscope : Libra

Wakeup @ : 6 AM

Languages

 Tamil

 English

Interest

 Technology

 Macro-economics






















































Hobbies



 Technology

 Youtube

 Listening Music

 Investment

TECHNOLOGY/tools	Recently worked Version	My knowledge	Scripting/coding	
 Kubernetes	V1.25	<div><div></div></div>	Dockerfile	★★★★☆
 Docker	24.0.3	<div><div></div></div>	Docker compose	★★★★☆
 Containerd	1.7.2	<div><div></div></div>	Ansible-Playbooks	★★★★☆
 Microsoft Azure	-	<div><div></div></div>	SPL	★★★★☆
 Openstack	Zed	<div><div></div></div>	LogQL	★★★★☆
 Docker Swarm	-	<div><div></div></div>	Jenkinsfile	★★★★☆
 Helm	V3.12.1	<div><div></div></div>	Kubernetes yaml file	★★★★☆
 DTR/Harbor/ACR	1.10	<div><div></div></div>	Helm charts	★★★★☆
 Ansible	2.12	<div><div></div></div>	Python scripting	★★★★☆
 AWX - tower	22.2	<div><div></div></div>	PowerShell	★★★☆☆
 Python	3.8	<div><div></div></div>	Shell scripting	★★★★☆
 Django /channels	4.2	<div><div></div></div>	System administration	
 Github/Workflow	-	<div><div></div></div>	Linux administration	★★★★☆
 Gitlab/pipeline	13.0	<div><div></div></div>	Windows administration	★★★★☆
 Bitbucket	7.8	<div><div></div></div>	Virtualization	★★★★☆
 Hashicorp Vault	1.14	<div><div></div></div>	Containerization	★★★★☆
 Jenkins	2.270	<div><div></div></div>	Container orchestration	★★★★☆
 SonarQube	9.9	<div><div></div></div>	Firewall	★★★★☆
 Splunk	8.0	<div><div></div></div>	Package manager	★★★★☆
 Grafana	10.0	<div><div></div></div>	Server logs analysis	★★★★☆
 Loki	2.8	<div><div></div></div>	Server Monitoring	★★★★☆
 Prometheus	2.45	<div><div></div></div>	Network switch	★★★☆☆
 Jira	9.4.2	<div><div></div></div>	Azure Cloud	
 Confluence	7.19	<div><div></div></div>	VM	★★★★☆
 hugo	V0.111.3	<div><div></div></div>	VM scale set	★★★★☆
 Nexus	3.37	<div><div></div></div>	Monitoring	★★★★☆
 Rabbitmq	3.12.1	<div><div></div></div>	Alerts	★★★★☆
 VueJS/vuetify	3.3	<div><div></div></div>	storage account	★★★★☆
 Celery	5.3	<div><div></div></div>	App Service	★★★★☆
 MinIO	2023-06-23	<div><div></div></div>	Container service	★★★★☆
 Sphinx	7.0	<div><div></div></div>	DNS	★★★★☆
 Opentelemetry	1.18.0	<div><div></div></div>	Dev labs	★★★★☆
 Jaeger	1.46.0	<div><div></div></div>	Bastion	★★★★☆
 Terraform	1.5	<div><div></div></div>	SQL server	★★★★☆
 NGINX ingress	1.8	<div><div></div></div>	CLI	★★★★☆
 Robot framework	6.1	<div><div></div></div>	Virtual networks	★★★★☆
 Hyper-v	-	<div><div></div></div>	Security groups	★★★★☆
 Kubespray	2.22.1	<div><div></div></div>	Openstack Cloud	
 Velero	1.10.3	<div><div></div></div>	Nova	★★★★☆
 NFS	4	<div><div></div></div>	Glance	★★★★☆
 Mongodb	6.0	<div><div></div></div>	Neutron	★★★★☆
 Oracle Database	12c	<div><div></div></div>	keystone	★★★★☆
 SQL Server	2016	<div><div></div></div>	ironic	★★★★☆
 Postgresql	15.3		Horizon	★★★★☆
 Singularity	3.11.3		Placement	★★★★☆
 Slurm	23.02		Galera	★★★★☆
 RKE	1.3			★★★★☆
 Thanos	0.28.1			★★★★☆
 Ceph	Quincy			★★★★☆
 LVM	-			★★★★☆
 Keycloak	21.1.2		Openstack API	★★★★☆
 Openldap	2.6.4		Openstack python sdk	★★★★☆
 Azure oauth SSO	-			

Tools	OS	FLAVOR	RATING
Vscode	 Linux	RHEL and centos	★★★★☆
Draw.io		Alpine	★★★★☆
Mermaid chart		Ubuntu /Debian	★★★★☆
Apache directory studio	 Windows	WIN server	★★★★☆
		WIN	★★★★☆



- 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 kubescape
- Automated functional test using robot framework
- Metallb for load balancer in on-premise kubernetes cluster
- AWX for ansible



- 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
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- 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**

- ☐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 :



- IPMI monitoring using snmp exporter
- Supported migration of Openstack servers from one lab to another

Find me on



Signature
(RAKESH N)