

Ramakrishnan Sakthivel

DevOps SRE Engineer at Wipro Ltd
London, UK (Current Location)

Pune, Maharashtra, India (Base Location)

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CAREER OBJECTIVE

Adaptable professional with 5+ years of experience and a proven knowledge of cloud, DevOps and SRE. Seeking challenging engagements with an organization of repute for the role of DevOps and Cloud SRE engineer who undertakes complex assignments, exciting maintainable implementations and deliver superior performances. I practice DevOps and applies strong technical, functional and analytical skills and operate with a strong sense of urgency and thrives in fast paced setting in order to solve business problems expediently.

Professional Experience

❖ KLE College of Engineering and Technology, Chikodi (2012-13): Lecturer

- Worked as a **lecturer** for a year handling subjects such as **C Programming and Computer concepts, Storage Area Networks**, Assisting the final year students in the final year projects.
- Conducting a State level technical fest for the College as the **Event coordinator**.
- Mentoring first year students on how to plan studies and helping final year students in **career guidance**.

❖ HCL Technologies Ltd (Infrastructure Services Division) – Noida July'15 – January'17

Management Trainee - DevOps

- Hands on experience in **Terraform, Packer, Puppet**.
- Developing solutions on Openstack for banking applications migration.
- Demonstrating POCs to customers on Implementation of solutions through **Docker** and Apache Mesos to build a reliable platform that runs multiple mission critical workloads including Docker containers

Skills:

PowerShell, Python, Groovy for Jenkins, AWS Services, Vault, Vagrant, Docker, OpenStack Cloud, Puppet.

Projects Undertaken:

❖ Cloud-Migration for Banking Client

- **Scope:** Migrating legacy applications from HP data centres to AWS Platform/ Openstack cloud platform.
- **Responsibilities:** Write and build **reusable template** to deploy **infrastructure as code** Using **terraform**, create custom CI/CD **jobs and pipelines** using groovy dsl plugins.
- Using **Puppet and OS based** scripting language for automation of application deployment.
- Understanding stakeholder requirements during the migration process to accommodate the configuration changes of the applications running on the Openstack and AWS environment.

❖ Wipro Technologies Ltd– Pune January'17 – Till Date

Technologist – Cloud DevOps Engineer

- Developing **AWS** cloud-native distributed systems, **orchestration platforms**, **serverless architectures**, and **immutable infrastructure** delivery.
- **Orchestration** and automation of build and deployment processes, **CI/CD** (Jenkins, Terraform, CloudFormation).
- Using **automation** and **configuration management tooling** to ensure compliance and ongoing operation of large estates.
- **Agile** way of handling project delivery using **JIRA** and **Confluence**.
- Hands on experience in **Terraform, Packer, Puppet**.
- Experience in a **24x7** high availability production environment
- Experience and working knowledge of Cloud services namely **AWS (Amazon Web service) & Microsoft Azure Cloud** services is a big plus
- Perform proactive daily system monitoring including reviewing system and application logs as well as responding to, triaging, troubleshooting and remediating incidents
- Partner with Product Owners and Agile Coaches to build, maintain the platform.
- Hands-on experience with most layers of AWS offerings and integration, and migration of existing metal solutions into virtualized hosting environments using **EC2, S3, VPC, ELB, Auto scaling, with Cloud watch metrics integration**.

Projects Undertaken:

❖ Cloud-Migration for Banking Client

- **Scope:** Migration of legacy applications to AWS Platform.
- **Responsibilities:** Write and build **reusable template** to deploy **infrastructure as code** Using **terraform**, create custom CI/CD **jobs and pipelines** using groovy dsl plugins.

- Using **Puppet and OS based** scripting language for automation of application deployment.
- Understanding stakeholder requirements during the migration process to accommodate the configuration changes of the applications running on the AWS environment.

Skills:

Groovy for Jenkins, AWS Services, Vagrant, Docker.

❖ **Cloud-Migration for Insurance Client**

- **Scope:** Migration of legacy applications from DXC data centres to AWS Platform.
- **Responsibilities:** **Understand stakeholder requirements** and design a DevOps approach where the Infrastructure is deployed using CI/CD tools such as Jenkins with Packer to Build Application specific AMIs, Integrating Jenkins with Terraform to deploy Infrastructure as Code in AWS Platform.
- Using **Puppet** for automation of application specific package installation and other required services configuration.
- Adapting to changing stakeholder requirements during the migration process to accommodate the configuration changes of the applications running on the AWS environment.
- Analysing the vulnerabilities in the AMIs and Instances and fixing them so as to make the infrastructure secure and compliant.
- Working towards creating cost saving methodologies for application teams by turning off non critical and developer environments resources on weekends and on no utilization.
- Getting confidential and secret data stored in vault and automating the secret retrieval from the same.

Skills:

PowerShell, Groovy for Jenkins, AWS Services, Vault, Docker, Puppet, Linux.

❖ **Cloud Platform Engineering Team (SRE Team) for an Insurance Client**

- **Scope:** Managing and Working towards keeping the Platform Code Compliant as well as security compliant by being at the customer facing role working at client location in London (UK).
- **Responsibilities:** Following efficient and best coding standards that define the core services running in the AWS platform such as Proxies, Jenkins, Vault etc.
- Implementing and designing a solution for providing least privileged access to the users of the environment.
- Automating AMI Builds using PR automation so as to avoid manual intervention.

- Managing the AWS Environment by having necessary controls in place to make the environment compliant and secure.
- Keeping VPCs secure by having necessary security in place and understanding various new implementations from designers and getting the security understanding from the Security team to get the implementations in place.
- Provide solutions for **performance management, disaster recovery, monitoring and access management.**
- Work with product operations team to resolve trouble tickets, developing and running scripts, and troubleshooting services in a hosted environment.
- Keeping the ship sailing! Monitoring and supporting the IT infrastructure environment.
- Identifying, gathering, analysing and automating responses to key performance metrics, logs, and alerts.
- Collaborated with peers on the development of new automation tools and services used in the management and maintenance of various virtual environments.

Skills:

PowerShell, Puppet, DataDog, Squid, Jenkins Configuration using JCASC, Groovy for Jenkins, AWS Services, Vault, Docker, Linux, Serverless Functions, Cloudability.

ACHIEVEMENTS & CERTIFICATION

- **AWS Solution Architect Associate**
- **AZ 900 Azure Fundamentals**

EDUCATION

- ❖ MTech in Cloud Computing from SRM University **(8.98 CGPA)** in 2015.
- ❖ B.Tech in **Computer Science and Engineering** from **KLE College of Engineering and Technology Chikodi** in 2012. (67.11%).

Languages

- ❖ English
- ❖ Hindi
- ❖ Tamil (Mother Tongue)