**Karthik Reddy Varukala**

**Email: karthik.varukala@gmail.com**

**Sr. DevOps Engineer**

**Phone:**

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**PROFESSIONAL SUMMARY**

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* Around 12 years of experience in the IT industry, prioritizing Automation, CI / CD Software Configuration Management (SCM), Release Management and DevOps experience in large and small software organizations.
* Experience in design and implementation of fully automated Continuous Integration, Continuous Delivery, Continuous Deployment (CI/CD) pipelines with tools like Version controls, Jenkins, Maven etc. and Configuration Management tools like Chef, Ansible & Puppet.
* Hands on experience in using version control tools like SVN, GIT, GitHub and Bitbucket.
* Experience with various AWS services like EC2, S3, ELB, EBS, VPC, RDS, CloudWatch, IAM and CloudFormation.
* Experience in writing templates in AWS infrastructure as a code using Terraform to build QA, Staging and Production environments.
* Experience in working on Docker hub, creating Docker images and handling multiple containers as a cluster with Docker Swarm, as well as Compose for various applications and several Micro Services.
* Expert in Implementing a production ready, highly available, fault tolerant Kubernetes infrastructure. Working on Scheduling, deploying and managing container replicas on a node cluster using Kubernetes.
* Proficient in Maintaining Enterprise Nexus code repository and SonarQube Code Quality management, regularly monitoring the quality gate of Enterprise applications using SonarQube.
* Experience in Working with Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications and well versed with Ansible Playbooks, modules, and roles.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications
* Experience on different kinds of application servers and web tiers including Apache tomcat, JBoss, IBM WebSphere.
* Experience in working on different projects which followed Agile/Scrum/Waterfall models.
* Experience on search and analytic tools like Splunk and developing Splunk queries, dashboards targeted at understanding application performance and capacity.
* Strong analytical and problem-solving skills and can work independently with little or no supervision or as a member of a team.
* Strong understanding of DNS architecture and protocols, as well as practical experience managing DNS servers and resolving various DNS-related issues.

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**TECHNICAL** **SKILLS**

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* **CI/CD Tools:** Jenkins, Ansible, Maven, Gradle, MS Build, SonarQube, Nexus, JFrog
* **Container Services:** Docker, Kubernetes
* **IaC Tool:** Terraform
* **Cloud:** AWS (EC2, S3, ELB, EBS, VPC, RDS, CloudWatch, IAM and CloudFormation)
* **Version Control Tools:** SVN, Git, GitHub, Bitbucket
* **Database:** Oracle, SQL Server, MySQL
* **Scripting Language:** Batch, Shell, PowerShell
* **Application Servers:** Apache Tomcat, JBoss, Http, IBM WebSphere
* **Operating System:** Windows and Linux
* **Monitoring:** Splunk, Nagios, ELK
* **Ticketing Tool:** JIRA

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**PROFESSIONAL EXPERIENCE**

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**Client: Juniper Networks, CA** **Oct 2019 – Present**

**Sr. DevOps Engineer**

**Responsibilities:**

* Worked on migrating monolithic applications into microservices adapting CI/CD/CO framework.
* Worked closely with developers to ensure quick resolution of defects to coordinate with development team in understanding the requirements design documents and issues.
* Created and developed test environments for different applications by provisioning Kubernetes clusters on AWS using Docker, Ansible and Terraform.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Defined branching, labelling and merge strategies for all applications in GitHub.
* Cloud infrastructure maintenance effort using a combination of Jenkins, Ansible and Terraform for automating CI/CD pipeline in AWS.
* Worked on AWS IAM service for user management, groups and grant permission to new accounts, groups roles to access EC2, S3 and RDS services.
* Created and maintained the Shell, Python scripts for automation needs.
* Hands-on experience in implementing effective monitoring and observability strategies, methodologies and related components/tools such as ELK/Splunk.
* Created quality gates in SonarQube dashboard and enforced in the Jenkins pipelines to fail the builds when conditions not met.
* Maintained GIT repositories for automation code and configuration in CI/CD Process to build and deploy the applications by utilizing tools such as Maven with plugins in Jenkins server.
* Responsible for delivering an enjoyable and seamless onboarding experience from other on premises or cloud platforms.
* Developed highly reliable, scalable, robust, failure recovery DevOps pipelines.
* Worked on JIRA as a tracking tool to raise issues and track on that.

**Environment:** Git, Ansible, MAVEN, Nexus, SonarQube, Shell, Python, Java, Jenkins, Docker, Kubernetes, Terraform, AWS (EC2, PVC, RDS, EKS, ECS, S3, Route 53, CloudFormation), Nagios, JIRA, Agile and Linux.

**Tech Vedika, INDIA Sep 2015 – Mar 2019**

**Sr. DevOps Engineer**

**Responsibilities:**

* Designed the Release Plans while coordinating with Stake Holders including Project Management Lead, Development Lead, and QA Team Lead.
* Implemented Continuous Integration and Continuous Deployment (CI/CD) pipelines for various applications using Jenkins, ANT, Maven, Nexus and Ansible.
* Automated configuration management and deployments using Ansible playbooks.
* Used Ansible as Configuration management tool to automate repetitive tasks, quickly deploys critical applications, proactively manages change and well versed with Ansible Playbooks, modules, and roles.
* Configured and managed SCM tools SVN, Git, branching strategies and troubleshoot code merging issues with coordination with application developers.
* Worked extensively with MAVEN build tool for writing build.xml and pom.xml files respectively in collaboration with development teams.
* Provisioning of AWS resources (EC2, PVC, RDS, EKS, ECS, S3, Route 53) using CloudFormation and Terraform.
* Used Terraform templates to automate Instances for manual Instances that were launched before.
* Experienced with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Extensively worked on creating Docker files, building the images, running Docker containers and managing them using Docker Cloud.
* Used Nagios as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on Nagios Event handlers in case of automatic restart of failed applications and services.
* Actively participated in scrum meetings, reporting the progress and maintained good communication with each team member and application managers.

**Environment:** Git, Ansible, MAVEN, Nexus, SonarQube, Shell, Python, Java, Jenkins, Docker, Kubernetes, Terraform, AWS (EC2, PVC, RDS, EKS, ECS, S3, Route 53, CloudFormation), Nagios, Linux, Agile and Windows.

**Bank of America, INDIA Feb 2011 – Aug 2015**

**Build and Release Engineer**

**Responsibilities:**

* Worked with developers, project managers, and product owners to set up the road map, and supported day to day build and deployment issues.
* Attended everyday Scrum/Agile meetings and weekly sprint meetings to evaluate completed work and to handover new tasks.
* Administrated and configured Jenkins to aid in build and deployment process. Also automated jobs with Shell scripts inside the Jenkins CI framework.
* Have done various POCs for migrating applications from on-premises to AWS cloud infrastructure.
* Developed and maintained exiting shell scripts for automating the manual deployment of the code to different environments.
* Implemented the Automated Application Deployment process using Chef.
* Responsible for maintenance of source control systems Subversion and Git.
* Designed and implemented the backup strategy for all the critical systems such as build machines, bug tracking tools, central repositories etc.
* Created release notes based on the contents of builds and published build artifacts to the stakeholders.
* Involved in release planning and executed the release build request from the project team through JIRA ticket.

**Environment:** Git, SVN, MSBuild, TFS, IIS, IBM WebSphere, Apache/Tomcat, Java, .NET, Oracle, SQL Server, Blade Logic, Jenkins, Maven, Artifactory, Rally, JIRA, Chef, Linux (RHEL), Shell Scripts.

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**EDUCATION**

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* Bachelor's degree in computer science and engineering from Jawaharlal Nehru Technological University, Hyderabad, India – 2010