Sunil Kumar Rana

Devops Architect

* +91-95009 14145 (India)
* ranaskr@yahoo.com
* <https://in.linkedin.com/in/sunil-kumar-rana-26b03221>

**** 

## *Dear Recruiters: Most of the times, I am not available on the phone, So Please email me all the details @ ranaskr@yahoo.com*

**Professional Summary**

* 10 years of rich experience in the IT Industry working extensively on architecting and implementing solutions related to DevOps, Cloud, Microservices & Containers.
* Currently working as DevOps Architect in LTTS Bangalore, India.
* Google Cloud Specialization Course from Coursera on **Architecting Hybrid Cloud Infrastructure Using Anthos**
* **Certified expert in AWS (Amazon Web Services)** – Developer, Sys-Ops Administrator, Solutions Architect
* **Certified Kubernetes Application Developer (CKAD)**

**Key Skills**

* **Technical skills**:

 **Containerization/Micro Services:** Docker, Swarm, Kubernetes(AKS/EKS/GKE/Openstack), OpenShift, Gitlab/GoCD/Spinnaker for CICD on Kubernetes Clusters.

 **Cloud:** AWS (EC2/EBS/S3/ELB/VPC/Lambda/Serverless/DynamoDB/RDS/Cloud Formation etc), Google Cloud(GKE/GCR/CloudRun/CloudFunctions/Stackdriver/Compute/Storage/Databases/Networking/Cloud Code/, Openstack (Heat/Cinder/Nova/Neutron/Swift etc), Azure (VNET/Storage/PAAS Services),

 **CI/CD Pipelines**: Jenkins/Bamboo/Azure DevOps for CI/CD, SCM Tools (Git/GitHub/Bitbucket/Gerrit/GitLab), Nexus, Build Scripts(Perl/Shell/Groovy/Python)

 **Infrastructure Automation**: Terraform for IaaC, Ansible for Configuration Management.

 **Monitoring Tools**: ELK (Elasticsearch/Logstash/Kibana), Prometheus, Grafana, AWS CloudWatch

 **IAM & Security**: AWS IAM, OpenVPN, OpenLDAP, ADFS SSO, PKI Infrastructure, Encoding and Encrypting, OWASP, CheckMarx, Blackduck, Hardening Linux OS, Hardening Docker Containers, Hardening K8S Clusters

 **Operating Systems**: Linux, Ubuntu, CentOS, Alpine, RHEL, Windows, Unix/Linux System Administrator

**Key Achievements**

* **Certified Kubernetes Application Developer**
* **Coursera Course in Google Cloud Course with Anthos**
* **AWS Certified SysOps Administrator Associate / AWS Certified Solutions Architect Associate / AWS Certified Developer Associate**
* **Certified PRINCE2® Foundation and Practitioner** in Project Management
* Awarded **Livewire Certificate** for being the best performer at HCL

**Work experience**

**L&T Technologies Services (Aug 19 2019 – till date)**

**Designation: DevOps Architect**

* Implemented End to End Istio Control Plane and Data Plane for a Telecom Based Giant on AWS EKS/Azure AKS.
* Developing container based solutions to containerize application using Docker and then deploying them to Microservices based Kubernetes Cluster via CICD Pipelines on AWS/Azure/GCP via Jenkins & Spinnaker.
* Developing End to End Automation Frameworks in form of Enterprise Level CICD Pipelines for different projects having C/C++, JAVA, .NET Framework
* Developed Terraform Code for creating Infrastructure Services/PAAS Services on AWS, Azure, GCP also including Kubernetes Services like EKS/GKE/AKS. Terraform Infra as a Code automation mandated in to every project.
* Brought in Auto Scaling Capabilities as Differentiator within the application PODS using Prometheus/Grafana by installing HPA & Prometheus Adapter. Cluster Auto scaler as well.
* Using Atlassian Suite of Tools(JIRA/Bitbucket/Bamboo), Open Source tools stack (Jenkins, Sonarqube/Nexus/ELK/Prometheus/Grafana/Gitlab) & Microsoft Tools Stack (Azure DevOps/MSBuild/OpenCover/Auto Deployments to IIS etc)
* Researched, Adopted and Implemented Security Guidelines in to each phase of DevSecOps Lifecycle. For ex: CheckMarx, BlackDuck, Owasps, Sonarqube and Cloud Native Security tools.
* Demonstrated Code Quality Guidelines and Enforcements in all the projects to determine Code Metrics like Code Coverage, Cognitive Complexity etc.
* Employed different DevOps Strategies like Blue/Green, Canary Release, Continuous Feedback Mechanisms for stringent DevOps Practices.
* Conducted and Performed Auto Deployments(CD) to different environments, i.e On-Prem, AWS PAAS(AWS ECS/EKS/EC2), Azure PAAS(Azure Web Apps), Google Cloud GKE Environments.
* Conversion of Monolithic Applications into Micro services Applications. Containerizing enterprise level applications.
* **Providing consulting, solutioning, architecting and documenting offerings, capabilities, assets and solution to different clients and customer belonging to different domains, wanting to adopt solutions w.r.t Cloud/API/Containers/DevOps/Operations/Security in AWS/Azure &Google Cloud**
* Engaging and direct communication with client and customers explaining the offerings and solutions.
* Developing/Architecting and Presenting solutions to CXO Participants and Senior Stakeholders - depict and describe DevOps/Cloud/Container based solutions to different customer needs as part of Pre-Sales Activities.
* Assessing current state of both internal and external projects and providing a roadmap for DevOps Transformation.

**Accenture (July 17 2017 – May 21 2019)**

**Designation: DevOps Lead**

* AWS EC2, Cloud Formation, Cloud Watch, Cloud Trail, VPC, Subnets, Route Table, and Security groups, ELB, EBS, S3, Route53, SES, IAM, Lambda and other AWS Services to manage and maintain our infrastructure services in other projects
* Used Stack driver to monitor Google Cloud Services for one of the customers and extended the functionality by writing custom plugins.
* Creating, Configuring Jenkins Pipeline to achieve end-to-end CI & CD (Continuous Integration and Continuous Delivery of JAVA Based Applications and .NET Application built using C# and deployed on JBoss, IIS Server respectively
* Made my hands dirty by jumping into the JAVA Code and doing some programming and coding around the JAVA Code to understand, design, develop CI/CD Pipelines for Developing, Compiling, Testing, Building, Packaging and then Deploying JAVA Based Applications
* Made my hands dirty by jumping into the .NET Code and doing some programming and coding around the C# Code to understand, design, develop CI/CD Pipelines for Developing, Compiling, Testing, Building, Packaging .NET apps and deploy them onto Windows Servers or IIS based servers.
* Developing Docker file to containerize JAVA, .NET applications, run those apps on JBoss/Tomcat, and IIS Servers respectively and store them as images on docker hub porta
* Successful implementation of DevOps Practices all the way from Branching and Merging to Performing Automated Code Analysis, Generating and Running Unit Test cases, Triggering CI Pipelines, Generating Code Coverage, and appropriately triggering CD Pipelines for deployment to several environments using different deployment strategies for JAVA Applications
* Working on a Micro-services architecture that provides containerization solutions like Docker, Kubernetes to help achieve CI and CD. Worked on moving/migrating JAVA Monolithic Applications into JAVA Micro-Services Applications.
* Configuring, installing and provisioning Kubernetes cluster from scratch including bootstrapping control plane having API Server, Scheduler and Controller Manager & bootstrapping nodes with kubelet, kube-proxy and networking plugin like calico, weave net.
* Used kops utility in creating kubernetes cluster consisting of master and several nodes bootstrapped using terraform and ansible scripts
* Monitoring and Logging kubernetes cluster using Prometheus and Grafana, sometimes using Heapster and Metrics-Server.
* Using and developing code using Groovy and Jenkins file to automate the Jenkins Pipeline doing CI & CD as part of *Jenkins as a Code* for JAVA based Applications
* Develop IaaC code using Terraform, AWS Cloud Formation for infrastructure automation in designing, developing, implementing and deploying JAVA based apps on AWS.
* Integration of applications with proper IAM ensuring secure authentication and authorization using AWS IAM, AWS Roles, ADFS SSO, OpenVPN, PKI Infra, Encryption Techniques for data at rest and data at transfer.
* Also worked on multiple projects that include TFS/VSTS, AWS, Docker, Jenkins, Git, Bitbucket, Gerrit, Groovy, Perl, Python, Nexus, Artifactory, SonarQube, Selenium, Sensu, OpenLDAP, OpenVPN.

**Robert Bosch Engineering & Business Solutions Ltd (Nov 2013 – Jun 2017)**

**Designation: Technical Specialist in Bosch**

**Expertise Services on Team Foundation Server (TFS)**

* Customized, maintained and managed the scrum activities for each work item type in several projects
* Certified Microsoft Certified Professional in Team Foundation Server after clearing exam 70-496
* Developed, maintained C# based apps to help the development team achieve SCM best practices.
* Focussed on building, releasing and deploying .NET based apps on to Windows Servers using Microsoft Team Foundation Server
* System Owner of TFS Server that included administration, management and maintenance, used by at least more than 2000 users.
* Expertise knowledge on TFS Installation, Configuration and Management acquired via MDN Tutorials and other forums including Report Server, SharePoint and SQL Server installation.
* Worked on migration of TFS Server from one hardware to another hardware.
* Worked also on migration of TFS Server from version 2010 to version 2013.

**Expertise Level Subversion Engineer**

* System Owner of 3 Subversion based Repository management servers that included administration, management and maintenance of 3 Subversion Servers used by at least more than 2000 users.
* Provided repository model and design for JAVA based Applications that would enable robust branching and merging strategies followed by proper release management.
* Hands-on Experience in editing, programming and coding JAVA based apps to test, design and develop solutions with respect to deployments
* Designed, Developed and Implemented Geographical based Subversion Replication Management for the development teams working across different geographical locations.
* Developed, enhanced and implemented Perl scripts for automating Product Engineering Process used for maintaining Subversion projects.

**HCL Technologies (June 2010 –Nov 2013)**

**Designation: Software Engineer**

**Project Title: ENVS Support on TradeBlade**

**Client: Tullet Prebon (Financial Products)**

* Worked as Build & Release engineer for the client Tullet Prebon (UK based Brokerage firm) to develop, build, release and deploy their JAVA Based applications used by their customers using Jenkins & Anthill Pro
* Developed program, scripts, and coded JAVA apps using Core JAVA, Server/Client Programming for financial based applications that included JAVA apps like TradeBlade, USD, CDS, Swap, Eurorepo, USFI and other financial products.
* Facilitating as a release engineer between varying business units to guarantee smooth and timely delivery of software products or updates
* Administration of SVN Repository with all the admin features to maintain and manage their source code repository management system.
* Administering, Maintaining and Managing JIRA and related tools that was used as ticketing tool to record agile methods that was practiced in the project.

**Education**

* **Bachelor of Technology** in Electrical and Electronics Engineering Affiliated to J.N.T.U, Hyderabad with Distinction of **75**%.
* Higher secondary school (Intermediate) from Bhadrachalam Public school & Jr. College, Bhadrachalam, A.P. in 2005 with **92**%.
* Secondary School (C.B.S.E Board) Bhadrachalam Public school & Jr. College, Bhadrachalam, A.P. in 2003 with **80**%.

**Personal Details**

* Contact Address : #3E/67, 68, 7th Cross, Nanjappa Layout, B G Road, Bengaluru - 560076
* Date of Birth : 15 April 1988

**Declaration**: All the information furnished above is true up to my knowledge. Thank You.