**Srikanth Ravi**

**Email Id:** [**sreermail@gmail.com**](mailto:sreermail@gmail.com)

**Ph number: 4239911068**

**PROFESSIONAL SUMMARY:**

* More than 9 years of experience in IT, specializing in DevOps, Kubernetes, DevSecOps, Azure Cloud migration, Automation, Linux Administration, Production Support, and Terraform.
* In-depth understanding of Software Configuration Management (SCM) principles and best practices in Agile, SCRUM, and Waterfall methodologies.
* Hands-on experience in configuring and maintaining webservers such as Apache Tomcat, and application servers like Tomcat, WebLogic, and WebSphere.
* Expertise in setting up Continuous Integration/Continuous Deployment (CI/CD) using various approaches and tools.
* Utilized Kubernetes for deploying, scaling, load balancing, and managing Docker containers.
* Proficient in configuration management tools like Ansible, Chef, and Puppet.
* Experience in building and deploying through Ansible, including creating Ansible Playbooks with Python, and managing production environments.
* Skilled in installation, set-up, and management of build servers using Jenkins as a Continuous Integration tool.
* Experienced in Terraform for building, changing, and versioning infrastructure safely and efficiently.
* Experience in maintaining artifacts using artifact repository tools like Sona type, Nexus, and Jfrog.
* Excellent experience in container management with Docker, including image creation, container snapshots, removal, and managing Docker volumes.
* Orchestrated Docker images and containers using Kubernetes by creating master and node configurations.
* Experience in Implementing Azure Front door and Application Gateway’s from Dev App Services to Prod App Services from scratch with Corresponding Routing Rules, DNS & Custom Names, Key Vault Certificates & Secrets and Traffic Manager & Load Balancer on Respective Regions.
* Strong problem-solving skills to analyze complex technical challenges related to DevOps automation, API management, and networking, and devise innovative solutions to optimize performance, reliability, and scalability.
* Knowledge of security best practices and standards for API management and network security, including authentication mechanisms (OAuth, JWT), encryption protocols (SSL/TLS), and firewall configurations, to ensure the integrity and confidentiality of data transmitted through the gateway.
* Used Jenkins pipelines for microservices builds, deploying to Docker registry, and managing in Kubernetes, including creating Pods.
* Ongoing architectural changes to transition software systems to a distributed, service-based architecture using Docker/Kubernetes.
* Setup Kubernetes (k8s) Clusters for running microservices and deployed them into production with Kubernetes-backed infrastructure.
* Proficient in Oracle, MongoDB, and MS SQL Server database tasks, including DML, DDL executions, log rotations, table space alterations, and user management.
* Experience in implementing monitoring and logging solutions to track the performance, availability, and usage of APIs and network resources, enabling proactive identification and resolution of issues impacting the DevOps workflow.

**TECHNICAL SKILLS:**

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| **Cloud Platforms** | Azure, Familiar with AWS |
| **Script languages** | Shell, Python, YAML, PowerShell, Groovy. |
| **CI /CD Tools** | Jenkins, Ansible, Git, Sonar, Ansible, Nexus |
| **Build Tools** | Maven, ANT |
| **Containerization Tools** | Docker, Kubernetes, Helm charts. |
| **Version Control Tools** | Git/GitHub, Bitbucket, SVN |
| **Artifact repository** | Jfrog, Sonatype Nexus |
| **IaC Tool** | Terraform |
| **Logging & Monitoring Tools** | Nagios, Splunk, Qradar |
| **Databases** | OracleDb, DB2, MySQL, SQL |
| **Application/Web Servers** | Apache Tomcat, NGINX, JBoss, WebSphere, Web Logic, Jetty |
| **Operating Systems** | UNIX, Sun Solaris, Red Hat Enterprise Linux, CentOS, Windows |
| **Virtualization Platforms** | Oracle VirtualBox, VMware |
| **Bug Tracking Tools** | JIRA |
| **Security Tools** | Veracode, Appscan, APIM, API gateways |

**EDUCATION:**

**Bellevue University (Nebraska):** Master’s in computer information systems- June 2017

**SRM University (Chennai, India):** Bachelor’s in pharmacy- June 2011

**PROFESSIONAL EXPERIENCE:**

**Client: AT&T, Richardson, TX FEB 2020 to Present**

**Project: Corporate Systems IT**

**Role: PROD SUPPORT LEAD/Azure DevOps Engineer**

**Responsibilities:**

* Supporting the maintenance, incident management, and production operations of 94 core corporate applications on various technology platforms.
* Applying security measures to existing applications by understanding business requirements and migrating on-premises applications to Microsoft Azure.
* Developing Shell/Python scripts to automate deployment processes for existing applications.
* Utilizing APPWORX WORKLOAD AUTOMATION tool for automating file loading into databases through job creation using shell scripts.
* Working with Python frameworks like Django and Flask, addressing threading limitations.
* Publishing disaster recovery strategy and application recovery manuals for supporting applications.
* Assisting in planning and supporting Oracle database upgrades and patching, ensuring periodic password changes for security.
* Involvement in migrating applications from on-premises to Azure and providing Infrastructure as a Service (IaaS) support.
* Designing, configuring, and deploying Microsoft Azure for applications, including a prototype that dynamically scales based on changing workloads.
* Led the design and implementation of Azure API Management (APIM) solutions, including configuring API gateways, defining API products, and setting up policies for authentication, throttling, and caching.
* Integrated APIM with Azure Virtual Network (VNet) to securely expose APIs within a private network, ensuring that only authorized users and services can access the APIs.
* Implemented disaster recovery strategies for APIM instances, including geo-redundant backups and failover configurations, to minimize downtime and data loss in case of a regional outage.
* Knowledgeable in using Azure stack components (Compute, Web & Mobile, Blobs, Resource Groups, Azure SQL, Cloud Services, ARM), focusing on high availability, fault tolerance, and auto-scaling.
* Building Data Sync jobs on Windows Azure to synchronize data between SQL databases and SQL Azure and creating Cache Memory on Windows Azure for improved data transfer performance.
* Optimized Kubernetes AKS configurations and resource allocations to improve the scalability and performance of .NET applications, accommodating fluctuating workloads and increasing user demand.
* Involved in API Management to manage authentication, performance using Azure tools.
* Setting up Azure functions and writing reusable Terraform modules to deploy required infrastructure in the production environment.
* Using Terraform to create Azure VMs with ATT golden images.

**Enviroments/Tools**: Azure, UC4, Oracle, SQL, Shell, Disaster Recovery strategy, APIM, VNet, Terraform.

**Client: AT&T, Richardson, TX JAN 2019 to JAN 2020**

**Project: AT&T/Chief Security Operations – Identity Access Management (IDAM)**

**Role: DevOps Engineer**

**Responsibilities:**

* Played a crucial role in fully automating appliances and applications, specializing in DevOps tools like Ansible, Jenkins, Git, Apache, Tomcat, and ISAM.
* Took a lead role in setting up ISAM Appliances.
* Managed multiple IAM accounts, each with specific policies, and implemented Multi-Factor Authentication for security compliance.
* Deployed ISAM across the environment, serving 200 million real-time users.
* Developed backend features using Python.
* Integrated Jenkins with private repositories on GitHub, using Nexus Artifact repository for successful build code deployment with Maven.
* Used Ansible for deploying critical applications, automating repetitive tasks, and implemented Ansible Tower dashboard for individual access to deploy using Ansible.
* Managed Ansible Roles and playbooks for provisioning instances, creating subnets, installing packages, and deploying web applications on Apache and standalone server environments.
* Implemented Continuous Delivery automation with Ansible, managing Webservers, and Tomcat.
* Responsible for end-to-end automation, covering build, deployment, and go-live processes.
* Wrote automation scripts using Python, shell, and YAML.
* Worked on Python web frameworks and created scalable code in Python.
* Involved in testing, debugging, and correcting code.
* Responded to application failures and conducted troubleshooting.
* Monitored software, hardware, and middleware updates using technologies like Jenkins, Nagios, and QRadar.
* Used JIRA for bug tracking and created dashboards for issue management.

**Enviroments/Tools**: Jenkins, Ansible, CICD, VM configuration, Oracle, ISAM, GitHub, Nexus, Maven, YAML, Python, Shell, Playbooks, QRadar, Nagios.

**Client: AT&T, Plano, TX JUN 2018 to JAN 2019**

**Project:** **Business Console and Business Direct**

**Role: DevSecOps Engineer**

**Responsibilities:**

* Developed plans and ensured timely delivery of Release Management objectives, regularly communicating code implementation status to the Application Manager and mitigating risks effectively.
* Configured and set up both environmental and functional activities.
* Maintained and supported development teams in GitLab usage.
* Established GitLab, created pipelines using GitLab CI, and managed GitLab runners based on project needs.
* Implemented end-to-end CICD jobs using Jenkins, GitLab, and Tomcat.
* Collaborated on AWS infrastructure automation through Terraform and GitLab, configuring software and services via Chef cookbooks.
* Introduced code review practices for Terraform configurations using GitLab merge requests, ensuring peer review and adherence to best practices before deployment.
* Managed Terraform state files collaboratively in GitLab for secure storage, versioning, and team access control.
* Automated various GitLab operations using GitLab CI YAML scripting to enhance efficiency and minimize manual intervention.
* Wrote Shell and Python scripts for build and deployment automation.
* Maintained SonarQube for code quality analysis.
* Developed Shell and Python scripts for environment management automation.
* Worked on the Continuous Deployment Platform (CDP) using Jenkinsfile and Ansible scripting.
* Implemented a platform-independent, developer-driven CDP where processes start from creating templates to generating Git Repos, Jenkins job creation, and executing Eco Pipeline via a specific Jenkins file process for builds and deployments to higher environments.
* Advocated for the use of Jenkinsfile in the DevSecOps process, automating build triggers, deployments, Sonar scans, and security checks.
* Utilized the Jenkinsfile for complex activities such as SAST or DAST analysis.
* Integrated Veracode (Static Security Scan) into the CI/CD Pipeline for individual modules and integrated modules.

**Enviroments/Tools**: Jenkins, VM configuration, Oracle, GitHub, Nexus, Maven, YAML, Python, Shell, QRadar, Nagios, Jenkins file, Microservices.

**Client: AT&T, Richardson, TX OCT 2017 to MAY 2018**

**Project: Business Center**

**Role: DevOps Engineer**

**Responsibilities:**

* Main responsibilities involve building and deploying Java applications into Dev connect and dev environments using Jenkins.
* Experienced in Continuous Integration (CI) and Continuous Deployment (CD) methodologies using Jenkins.
* Used Python libraries for developing APIs, scheduling and processing batch files, and employed Python Django.
* Created Python and Bash tools to enhance the efficiency of the application system and operations.
* Installed, configured, and integrated SONAR with Jenkins server to improve code quality and metrics through the code analysis process, providing rapid feedback to development and application teams.
* Used Jenkins to automatically retrieve changes from the code cloud and deploy them to dev connect environments.
* Coordinated with different teams to understand the application flow.
* Implemented quick and rapid provisioning by collaborating with cross-functional teams using Agile Methodology.
* Utilized Maven as build tools to generate deployable artifacts (jar, war) from source code and stored them in the Nexus repository.
* Built and configured Jenkins slaves for parallel job execution, installing and configuring Jenkins for continuous integration and performing continuous deployments.
* Responsible for build and deployment automation using Docker containers.
* Used YAML scripts for deployment purposes, loading images from the Nexus repository and deploying them in Kubernetes.
* Implemented Kubernetes manifest and helm charts for deploying microservices into K8s cluster.
* Used Kubernetes for deploying, scaling, load balancing, and managing Docker containers.
* Employed the Nagios monitoring tool to maintain load balancing of pods in Kubernetes, triggering emails as needed.
* Developed a continuous deployment pipeline using Jenkins and shell scripts.
* Developed Shell scripts for automation purposes.
* Managed files, disk space, and performed security administration of user accounts, files, and directories on various servers running under Linux.
* Automated daily tasks using Shell scripts.

**Enviroments/Tools**: Jenkins, GitHub, Nexus, Maven, Shell, Nagios, Jenkins file, Microservices, Kubernetes, Docker.

**Client: CL SOFT PVT LTD, Hyderabad, India FEB 2012 to MAY2015**

**Role: Linux System Administrator**

**Responsibilities:**

* Managed and administered all UNIX servers, including Linux operating systems. Applied relevant patches and packages regularly using tools like Red Hat Satellite server, YUM, and RPM.
* Planned and executed upgrades to Linux operating systems (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6) and performed hardware maintenance, such as changing memory modules, disk devices, SAS, SATA, and SCSI devices.
* Developed Python modules to extract/load asset data from the MySQL source database. Created views and templates using Python and Django.
* Monitored CPU, memory, physical disk, Hardware and Software RAID, multipath, file systems, and network using NAGIOS 4.0 monitoring tools.
* Installed new servers or rebuilt existing ones, configuring hardware, peripherals, services, settings, directories, and network storage according to standards and project/operational requirements.
* Administered and maintained Red Hat Linux 3/4/5/6, troubleshooting hardware, operating system, application, and network problems. Deployed the latest patches for Linux and application servers, and performed Red Hat Linux Kernel Tuning.
* Built, installed, and configured Sun/HP/Dell servers from scratch with operating systems Solaris (10/8) and Linux (Red Hat 6.X, 5.X, 4.X).
* Worked on a large Data Center Migration Project, migrating Linux/Unix Servers with minimal downtime. Involved in P2P, P2V, and V2V migrations.
* Designed, developed, and implemented the package and patch management process.
* Conducted failover and integrity tests on new servers before rolling them out to production.
* Performed Kickstart installations in Linux, attended team meetings, and participated in change control meetings to update on installation progress and upcoming changes in the environment.

**Enviroments/Tools**: UNIX servers, Linux operating systems (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6), Red Hat Linux (versions 3/4/5/6), YUM (Yellowdog Updater Modified, RPM (Red Hat Package Manager), Kickstart installations, P2P (Physical to Physical) migration.