# Srinivas Rao Puttagunta

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# Professional Summary:

* Linux and DevOps Engineer, around Seven years of involvement with a solid execution foundation in wide variety of professional system support and solution-based IT services for Linux Systems (or administrations) including, Upgrading, patching monitoring, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on Linux systems
* Experience in installing numerous operating systems on physical hardware and a virtualized environment; (i.e. Debian 7, 8,9,10, Ubuntu and Red hat servers).
* Hands on experience in working with Hashicorp technologies like Vault, Terraform etc.
* Experience with DevOps tools (Puppet/Jenkins/Git/Jira/Docker).
* Experience in working with Container technologies like Docker and orchestration tools (Kubernetes, Fleetctl and Swarm)
* Experience in writing scripts using Bash, Perl, Ruby and Python for process automation of databases, applications, backup, and scheduling.
* Experience in working with ticket management tools like Service Now and JIRA.
* Good working knowledge on source repository management tools like GIT, SVN.
* Experience in Server monitoring, capacity planning, application and log monitoring with the help of Nagios, Munin, and Splunk.
* Hands on Experience in Installing and Managing ELK (Elastic, Log stash and Kibana).
* Hands on experience with configuration tools like Puppet, Packer, Pulumi and Terraform
* Hands on experience in Continuous Integration tools like Jenkins, Gitlab Runner and Drone
* Experience with Nagios monitoring software, writing scripts to extend monitoring capabilities.
* Experience in working with google cloud platform.
* Experience in working with Qualys Vulnerability Management Tool.
* Hands on Experience in working with Google Cloud Platform and Google Kubernetes Engine (GKE)
* Worked on Installing and configuring Puppet and creating manifests for new servers and pushing them to servers using modules.
* Hands on knowledge of CI/CD, Container Orchestration (Docker, Kubernetes).
* Hands on experience in building and managing Debian repositories and Debian Packages.
* Experience in managing Jenkins using Docker containers and automate builds using Jenkins pipelines.
* Experience in working with RDMS like MySQL (Maria DB) and PostgreSQL.
* Migrated MySQL and PostgreSQL to GCP CloudSQL.
* Hands on experience in working with Amazon Web Services (AWS).
* Experience in working with AWS Services (VPC, EC2, RDS, S3, Cloud Watch, IAM, AWS SSO).
* Hands on experience in Continuous Integration tools like Jenkins, Gitlab Runner and Drone
* Experience in working with AFS (Andrew File System) and FAI (Fully Automatic Installation).
* Experience in working with LDAP, Kerberos, and SSO Authentications.
* Experience in working with DELL hardware related issues and firmware related issues.
* Good Knowledge in working with Hadoop clustering and technologies.
* Experience in working with Intrusion Detection Tools like Tripwire and OSSEC.

# Work Experience

**Nova Signal Corp**

Devops Engineer Jan 2020 to Till Date

**Responsibilities**

* Hands on experience with AWS, GCP, GKE, Terraform, and Packer.
* Installation, administration, maintenance, and support of Jenkins.
* Experience with DevOps tools (Puppet/Jenkins/Git/Docker).
* Deployed infrastructure using terraform code
* Deployed applications in GCP Cloud run
* Familiarity with public/private/hybrid cloud, GCE, GKE, and Kubernetes
* Deployed and managed multiple projects using terraform for multiple

Hospitals.

* Work experience on Kubernetes, Docker, and VMWare etc.
* Hands on knowledge of CI/CD, Container Orchestration (Docker, Kubernetes), Monitoring/Alerting, Security best practices, automated deployments, version control, merging, branching etc.
* Deployed and maintained SonarQube Server
* Experience in Continuous Integration tools like Jenkins, Gitlab Runner and Drone
* Experience in working with AWS services like IAM, Cloud Formation, VPC, S3, EC2, and more.
* Experience using virtualization technologies (e.g., VMWare VSphere, Docker).
* Created scripts to automate tasks using bash shell scripting and python
* Experience in working with RDMS like MySQL (Maria DB) and PostgreSQL.

**Environment:** Debian, Puppet, GCP, AWS, Terraform, Ubuntu, Git, Apache2, Jira, Shell, Python, Ruby, Jenkins, CloudSQL, Docker, SonarQube.

**Stanford University**

System’s Administrator/ Devops Engineer Sep 2016 to Jan 2020

**Responsibilities**

* Involved in Installation, Upgrade, Patches, Migration, Configuration, Troubleshooting and managing over 300 Debian and Ubuntu servers.
* Installed numerous operating systems on physical hardware and a virtualize environment; (i.e. Debian 7, 8, 9, 10 Linux).
* Installed and managed virtual machines on VMware.
* Belong to a dynamic team of Linux administrators in charge of managing and maintaining the LDAP, Kerberos, IDP environment.
* Wrote Shell, Perl and Python Scripts to automate the administrative tasks.
* Hands on experience with AWS, GCP, GKE, Terraform, and Packer.
* Installation, administration, maintenance, and support of Jenkins.
* Working experience with Nagios network monitoring software administration tool.
* Used puppet for central management of Linux configuration files and software package management.
* Experience with DevOps tools (Puppet/Jenkins/Git/Jira/Docker).
* Experience in working with Jenkins pipelines.
* Deployed applications in GCP Cloud run
* Familiarity with public/private/hybrid cloud, GCE, GKE, and Kubernetes
* Work experience on Kubernetes, Docker, and VMWare etc.
* Hands on knowledge of CI/CD, Container Orchestration (Docker, Kubernetes), Monitoring/Alerting, Security best practices, automated deployments, version control, merging, branching etc.
* Experience in Continuous Integration tools like Jenkins, Gitlab Runner and Drone
* Experience in working with AWS services like IAM, Cloud Formation, VPC, S3, EC2, and more.
* Experience using virtualization technologies (e.g., VMWare VSphere, Docker).
* Created scripts to automate tasks using bash shell scripting and python
* Experience in working with RDMS like MySQL (Maria DB) and PostgreSQL.
* Working Experience in Server monitoring, capacity planning, application, and log monitoring with the help of Nagios, Munin and Splunk.
* Working Experience with Ticketing tools like Remedy, Jira, and ServiceNow.
* Working Experience in creating and updating apache SSL certificates, Self- signed Certificates and Private Keys.
* Wrote Perl script for Nagios passive checks.

**Environment:** Debian 7,8,9,10 Puppet, LDAP, Kerberos, Git, GitLab, Shibboleth, Apache2, AWS, GCP, Splunk, Munin, Nagios, ServiceNow, Jira, Perl, Shell, Python, Ruby, Java, VMware, OSSEC, RHEL.

# System’s Administrator

**Edge IT Crop, VA March 2016 to Sep 2016**

**Responsibilities:**

* + Installation and configuration of Red Hat Enterprise Linux 6/7, debian7/8 and Ubuntu systems.
  + Installing Red Hat Linux using kickstart and applying security policies for hardening the server based on the company policies.
  + Acquiring the applications from business owners to migrate them to the cloud.
  + Creating the platform in AWS (Amazon Web Services Tool) according to the requirement.
  + Building application and Web servers in the AWS for migration setup and making sure they are interconnected with respective network elements.
  + Worked with Security team for required authentication setup and make sure the things are going properly.
  + Coordinating with SSL team for the certificates to be installed in the system.
  + Coordinating with java developers for necessary code enhancements.
  + Acquiring the code from developers and deploying in the application servers.
  + Improved Linux OS deployment and management by creating customized kickstart scripts and installing puppet.
  + Used puppet for central management of Linux configuration files and software package management.
  + Worked on Installing and configuring Puppet and creating manifests for new servers and pushing them to servers using modules.
  + Installed packages, patches, and SSL certificates on all web servers.
  + Installed and configured monitoring tools Service Now, Nagios, Splunk.
  + Wrote scripts using Python to automate routine tasks like Selective file removal, disk space utilization & Process management and has good knowledge in PHP and HTML languages.
  + Used Jenkins and Puppet for Continuous Integration and continuous deployment in multiple environments.
  + Developed and supported the Red Hat Enterprise Linux based infrastructure in the cloud environment.
  + Experience in AWS, which included managing application in the cloud and creating instances.
  + Python scripts to automate post provisioning and server build process.
  + Helped moving things to cloud and improved disaster recovery.
  + Analyzed system/application failures, examine log files; verified network connectivity.
  + Experience in resolving Incident Tickets in Service Now.
  + Experience in configuring the user's accounts for Continuous Integration - Jenkins, Nexus and Sonar.
  + Provided 24 x7 on-call supports in debugging and fixing issues
  + Remote system administration using tools SSH, Telnet, and Rlogin.

**Environment:** Debian 7,8, RHEL, Puppet, LDAP, Git, Apache2, AWS, Splunk, Munin, Nagios, ServiceNow, Jira, Perl, Shell, Python, Ruby, Java, VMware, OSSEC, RHEL.

**EDUCATION** : Master’s in Electrical Engineering, Mobile, Alabama, USA

# TECHNICAL SKILLS:

Operating Systems : Debian 7/8/9/10/11, Ubuntu 12.x, 14.x, 16.x, 18.x RHEL6/7.

Web/ Application Server : Apache-tomcat, Apache2 Server.

Network Protocols : DHCP, DNS, SMTP, Ethernet, net stat, NFS

Programming Languages : Perl, Shell Scripting, Python, and Ruby.

Monitoring Tools : Nagios, Splunk, Munin, Wireshark, ELK, and Zabbix.

Other Skills : VMware, LDAP, IDP, AWS, Terraform, Docker, Packer, GIT, AWS, GCP, Kubernetes, Kerberos, Jenkins, Gitlab Runner, Drone, Vault