**curriculum vitae**

shashank reddy sunkara

Sr.Devops Engineer/Lead manager

<https://shashankreddysunkara.github.io/blog/>

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| work experience | |
| 09/2020– present  06/2019– 03/2020 | **Datacultr, Delhi, INDIA - Fulltime**  *Datacultr uses a Smartphone as a tool to provision affordable, accessible and relevant financial products to individuals and small businesses that have traditionally been excluded from the mainstream financial products. I work under three roles as* ***Senior DevOps Engineer****,* ***people manager and DevOps Lead manager*** *with responsibilities like managing team of 3 devops resources to provide test, stage and production environments to the dev team and also to automate the deployment process with CI/CD and enhance the utilization of existing tools or technologies and reduce cost of infrastructure.*   * I **Lead DevOps Team** of 3 people. * Took lead in **Azure** to **AWS migration** tasks by using migration tools & also manual way and successfully migrated in 3 weeks by reducing VMs footprint from **75 to 31** by optimizing the usage. * Set up **ALB, EIP, NAT, EC2, S3, Advanced monitoring on services, cloud watch, RDS, beanstalk, Migration services,SG, VPC, IAM, Cloud front, X-Ray, Cloud Formation, Kinesis,AWS Cost explorer, Budget and Billing, Auto-scaling and alerts**. * Created **multiple dashboards** for **AWS services**, Servers metrics in **Grafana** with dynamic selection of parameters. * Installed **Prometheus**, **Node exporter**, **blackbox exporter**, **cadvisor** in a **docker-compose** format in all **production**, **staging**, and **testing** servers with **persistence storage**. * Gathered user requirements from multiple teams like the **dev team** and **P1-support team** to craft efficient **monitoring**, **alarming** solutions, and dashboards in grafana, **Zabbix**, and in **kibana**. * **Tracked down** and **eradicated the attackers' virus** (bit mining **viruses** that utilize **100% of CPU resources** and cause full load), **unauthorized keys**, **phantom scripts**, and so forth securities that compromised in backend and database servers. * Modified **Nginx configuration** to block **unauthorized** hits in endpoints by use of **error blocks** and **fail2ban**. * **Architect**, **design**, **develop**, **deploy**, and **maintain** the **enterprise logging** platform using **ELK**. * Configured **Filebeat** to trace specific file paths on your host and use Logstash (**ELK Stack**) as the destination endpoint. * Cognizance on different agents like log files (**Filebeat**), network metrics (**Packetbeat**), and server metrics (**Metricbeat**). * Configured **3 nodes set up** for Elasticsearch, Logstash, and Kibana stack. * Support the development team with front-end visualization dashboards using kibana. * Created **nginx kibana dashboard** to show a number of HTTPS hits from clients and categories of **200,404,400 and 500 HTTP response** codes in numbers. * Worked on **Sentry** application performance monitoring (**APM**) tool to debug issues in transactions via applications, and backend servers, etc. * Manages environments requests and environment allocation to project teams. * Owned the Production, Staging, and Development infrastructures. * Design, manage, test, document, automate, deploy, secure, monitor, scale, descale, support, and sustain the 24/7 **Bare Metal**, Amazon EC2, Azure private cloud architectures. * **Day-to-day support** for applications hosted on Azure or other Cloud providers like **AWS**. * **System administration** in support of **Linux**, **Nginx**, **MongoDB**, **Django**, **Python**, **Kafka**, **Elastic**, and **Go**. * **Setup** and **manage** the **end-to-end CI/CD pipeline** with **Jenkins** for **Production** and **staging** environments. * Merge test and staging applications into their designated specified single-stage and test VM respectively to **reduce VM footprint** and **cost** in the Azure and AWS infra cloud.   **Freddie Mac**, **Virginia, USA – Full-time**  *I worked as a fulltime* ***DevOps Engineer*** *to take care of automation and spinning up the vms for the applications/development and the testing teams under SLA period. Played a major role in critical project to create, maintain and destroy 1000s of vms to decrease the footprint and cost of infrastructure.*   * Managed health of the environment and proactively coordinate as well as resolve the **environment downtime related issues**. * Initiated and tracked the environment build-out requests for traditional as well as new technologies like **Docker**, **Open Shift**, and **Cloud**, etc. * Worked on APM tool **App Dynamics** to get a **stack trace**, **bread crumbs** on **transactions** with a duration of execution or processing time, and provide **RCA** to Lead and manager of the project at production level. * Created Grafana alerting setup by use of alerting feature that can communicate with dev and **L-1 support** teams through **Slack**. * Configured **CloudWatch**, Prometheus, **influx DB** datasources in grafana. * Installed worldping plugin in grafana to get **ping**, **ICMP** checks on **URLs** of applications. * Configured **dashboards** to monitor multiple containers, servers, URLs, network, and **RDS** in **Grafana**. * Contributed to design understanding the architectural tradeoffs including **Scalability**, **Resiliency**, **High Availability** and **Security**. * Performed capacity planning and solution review related to the ELK environment. * Worked with **data log streaming platforms** and tools to ingest data from **systems**, **applications**, and **access logs**. * Designed and built **multi-tenant dashboard** solutions in **Kibana** and **Grafana**. * Optimized and tuned the **ELK environment** (File beat, logstash) to meet the performance requirements. * Hands-on experience with supporting Elasticsearch in **production**, handling medium to **large clusters**. * Experienced in setting up ELK Stack (Elasticsearch, Logstash, Kibana stack) to process data from multiple data sources. * Experienced with **Kibana visualization strategies**, controls,and techniques. * Experienced with **Elasticsearch index configuration** options, **sharding**, **aliases**, etc. * Troubleshot lower environments like **Dev** & **cert** and higher environments like **UAT**, **Maint**, **Perf** & **Prod**, and application issues. * Ensured Non-Prod environments stability and availability. * Worked on ELK to view logs and created dashboards for the graphical representation of metrics. * Supported New production environment build-out and * deployment. * Maintained and Managed software version modification of project ecosystem. * Developed and maintained a **CI/CD pipeline** and **ansible playbooks**. * Applied experience of **DevOps/SCM best practices** to enable **highly available** & reliable systems. * Took **full end-to-end ownership** of certain elements/business processes/capabilities within the **Atlassian suite**. * Vetted new **Atlassian** feature **ideas**, **configurations**, etc. * Maintained up-to-date knowledge of the **Atlassian products**, and **process** best practices. * Maintained Atlassian tools in both **Unix** and **Windows** environments. Performs end-user activities in the Atlassian tools, such as creating workflows in **JIRA**, authored content in **Confluence**, creating **build plans** in **Bamboo**, etc., |
| 04/2018– 05/2019 | **Deere & Company WHQ, Illinois, USA - Full-time**  *I played a major role as* ***IT Technical Analyst IV*** *in leading the on-shore and off-shore team in application development and automation of the application deployment into the private cloud or on-prem cloud infrastructure.*   * Involved myself in discussions related to application production issues with **Architects, tech leads**, **infrastructure analysts**, **business analysts** and **developers**. * Proficiently served my **cloud foundry** skills to resolve timeout issues, **blue-green deployments** in **testing** and **production** environments. * Delivered effective **technical** **support** (application, software and operations) in all environments for a critical **legacy application**. * Involved in the technical **incident resolution** with prioritization and escalation by involving business, application, **DBA** and **ops** teams. * Resolved issues related to application code enhancements and deployments in cloud, **CI/CD** pipelines, **ELK** logs, performance monitoring and database querying. * Collaborated with development team to troubleshoot and resolve issues. * Interacted and contributed my work with multiple team in **flow dock** collaboration tool. * Enhanced the micro services code using **12 factors** which had resolved the major production issue and thus satisfied business requirements. * Responsible for the maintaining and succeeding the pipeline jobs as green in **Jenkins**, **micro services**, **Git**/**Subversion** repositories, **ELK** and **Cloud Foundry** **data centers**, **OpenStack** instances. * Collaborated with architect to resolve the issues. * Strengthened developmental methodologies and maintenance of process and associated **scripts** for automated build, testing and deployment of applications to various environments. * Deleted and created new pipelines for the applications that causing the issues. * Written **groovy** and **shell** **scripts** for **Jenkins** **jobs** as a **POC** for the new implementation of jobs functionalities. * Performed **Solr** indexing with verification on prod environment for syncing data from **DB2** to Solr. * Provided **production support 24/7** using application performance management tool like **app dynamics** for all the **business-critical** applications. * Worked on **SiteScope** alerts related to application production outages and provided **RCA** with **3L5Y**. * Worked on **ELK** stack for the purpose of logs and maintained the **Kibana** instances when the space runs out by using **Linux** commands. * Utilized **JFrog** **artifactory** to upload/download the build artifacts after a successful build. * Installed, configured, and administered **Jenkins** and **PCF** dev on **Linux** machines in **OpenStack**. |
| 02/2018– 04/2018 | **Softworld Technologies**, **Iowa, USA - Full-time**  *I worked as* ***Software Engineer*** *to work on SDLC process and performed tasks on front-end and back-end technologies with devops.*   * Involved in all phases of Software Development Life Cycle (**SDLC**) like requirements gathering, **analysis**, design, **development**, and **deployment** of various modules. * Analysed user **requirements**, **procedures**, and problems to **automate** processing or to **improve** existing computer systems. * Interacted with the system/business analysts to understand the business requirement before translating into non-functional **HTML** pages. * Conferred with personnel organizational units involved to analyse current operational procedures, identify problems, and learn the specific output requirements. * Documented detailed descriptions of users need to develop functional and technical specifications. * Collaboration with teams and attending technical meetings for discussing on application **disaster recovery** plans and **deployment** **rollback** plans. * Use of computer/software technologies like **Jenkins**, **Cloud Foundry**, **AngularJS**, **Dynatrace**, **HTML**, **CSS**, **ELK**, **Web UI design**, **Java/J2EE**, and **spring boot** to provide solutions to user needs. * Worked on **micro services** & its enhancements, **NoSQL** database, and **SQL** databases. * Performed command line execution of **scripts**, **configurations**, **CRON** jobs. * Execution of the commands through **Jenkins jobs** on **Cloud foundry** environment. |
| education | |
| 2017 | Northwest Missouri State University, USA  *Computer and Information Sciences, Masters; G.P.A: 3.5* |
| 2016 | JNTUH, INDIA  *Electronics and Communication Engineering, Bachelors; G.P.A: 3.6* |
| language skills | |
|  | English, Telugu, Hindi, German |
| IT skills | |
|  | **Cloud Tehnologies**  Amazon Web Service (AWS) / Cloud Foundry / Microsoft Azure / Server4you / Open-Stack  **CI-CD**  Jenkins / TravisCI / GitHub Actions / GItLab / Bamboo  **Configuration Management Tools**  Terraform / Ansible  **Log Monitoring Tools**  Splunk / ELK (Elastic search, Logstash, Kibana)  **Infra/Server Monitoring Tools**  Zabbix / Grafana  **Application Performance Monitoring (APM) Tools**  App dynamics / Dynatrace APM  **Webserver technologies**  Web servers IIS Server Apache and NGINX / reverse proxying (Traefik)  **Databases**  WebLogic 12c / PostgreSQL / MongoDB, MySQL  **Container Technologies**  Kubernetes/Openshift / Docker engine & docker machine / Docker swarm / Portus / Docker / OpenShift / REX-Ray / Portainer  **Programming Languages**  Java / Groovy / Python / Go-Programming  **Scripting Languages**  Bash, Shell  **Message Broakers**  Apache kafka / Redis / RabbitMQ  **Operating Systems**  CentOS / Linux / Ubuntu / Microsoft Windows / Kali Linux  **Miscellaneous**  Confluence / Apache SOLR / Tableau / Visio / Maven / Stratos UI / Git / Filebeat / Slack / Prometheus / JSON / Microservices / Jira / Bare Metal / MobaXterm / Super Putty / JFrog  **Services**  Infrastructure as a Service (IaaS) / Platform as a service (PaaS) / Function as a Service (FaaS) / OpenFaaS / Software as a Service (SaaS) |
| CERTIFICATIONS | |
|  | * DevOps Deployment Automation with Terraform, AWS and Docker * Certifiable/Exam-readiness for AWS-SAA & AWS-CCP * DevOps Foundations * Ansible * Oracle SQL and Cloud foundry & Cloud native architecture |