



Shashank Reddy Sunkara

Date of birth: 5 Apr 1994

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ABOUT ME

Dedicated and focused IT Technical Professional of overall 3+ years of experience who excels at prioritizing and completing multiple and complex tasks simultaneously. Specialized as SRE, DevOps Engineer, DevOps Team Lead managing production and lower environments and all critical and non-critical applications. Committed to delivering high-quality results by being energetic, organized, and professional.

WORK EXPERIENCE

15 OCT 2020 – CURRENT – Gurgaon, India

Senior DevOps Engineer / DevOps Team Lead & Manager

Datacultr Pvt. Ltd.

- **Lead** the **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 **L1-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.

- Own 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.

Financial and insurance activities

27 JUN 2019 – 29 MAR 2020 – McLean, United States

DevOps Engineer

Freddie Mac Corp.

- Managed health of the environments to be green and proactively coordinated as well as resolved 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.
- **Architect, design, develop, deploy, and maintained the enterprise** logging platform using **ELK.**
- 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 scripts**.
- 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, process best practices, and obtain and maintain certification with the various Atlassian products.
- 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.,

14 APR 2018 – 27 MAY 2019 – Moline, United States

IT Technical Analyst IV

Deere & Company Corp. WHQ

- 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.
- Created docker-compose files with services like **Grafana, Prometheus, node exporter, and black-box exporter**.
- Managed monitoring services installed like **Grafana, Prometheus** in **ubuntu** servers with **CPU, RAM, IOPS, and throughputs** for better **performance**.
- 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 the **cloud, CI/CD pipelines, ELK logs, performance monitoring, and database querying**.
- Collaborated with the development team to troubleshoot and resolve issues.
- Interacted and contributed my work with multiple teams in the flow dock collaboration tool.
- Enhanced the **microservices** code using **12 factors** which had resolved the major production issue and thus satisfying business requirements.
- Responsible for maintaining and succeeding the pipeline jobs as green in **Jenkins, microservices, Git/Subversion repositories, ELK** and **Cloud Foundry data centers, OpenStack instances**.
- Collaborated with the 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 by use of stack traces, transaction time, nodes health, etc.
- 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**.

9 FEB 2018 – 13 APR 2018 – West DesMoines, United States

Software Engineer

Softworld Technologies LLC

- Involved in all phases of Software Development Life Cycle (SDLC) like requirements gathering, **analysis, design, development, and deployment** of various modules.
- Analyzed 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 analyze current operational procedures, identify problems, and learn the specific output requirements.
- Documented detailed descriptions of users' needs to develop functional and technical specifications.
- Worked on **Grafana, Prometheus, and exporters** to monitor servers.
- Collaboration with teams and attending technical meetings for discussing **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 microservices & their enhancements, **NoSQL** database, and **SQL** databases.
- Performed command-line execution of **scripts, configurations, CRON** jobs.
- Utilized **AppDynamics** to monitor application-level performance.
- Execution of the commands through Jenkins jobs on **Cloud foundry** environment.

EDUCATION AND TRAINING

27 AUG 2016 – 5 DEC 2017 – 800 University Dr , Maryville,
United States

Masters

Northwest Missouri State University

<https://www.nwmissouri.edu/index.htm>

16 AUG 2012 – 8 MAY 2016 – 66, Jntu Rd, Ashok Nagar, LIG,
Kukatpally Housing Board Colony, Kukatpally, Hyderabad,
Telangana, Hyderabad, India

Bachelors

JNTUH - Jawaharlal Nehru Technological University

<https://jntuh.ac.in/>

LANGUAGE SKILLS

MOTHER TONGUE(S): Telugu

OTHER LANGUAGE(S):

English

Listening
C2

Reading
C2

**Spoken
production**
C2

**Spoken
interaction**
C2

Writing
C2

Hindi

Listening
C2

Reading
C2

**Spoken
production**
C2

**Spoken
interaction**
C2

Writing
C2

German

Listening
A1

Reading
A1

**Spoken
production**
A1

**Spoken
interaction**
A1

Writing
A1

DIGITAL SKILLS

Cloud Tehnologies

Amazon Web Service (AWS) / Cloud Foundry / Microsoft Azure / Server4you / Open-Stack

CI-CD

Jenkins / TravisCI / GitHub Actions / GitLab / Bamboo CI/CD

Configuration Management Tools

Terraform / Ansible

Log Monitoring Tools

Splunk / ELK (Elastic search, Logstash, Kibana)

Infra/Server Monitoring Tools

Zabbix / Grafana

Application Performance Monitoring 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

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 / Alteryx Designer / Microservices / Jira / Bare Metal

Services

Infrastructure as a Service (IaaS) / Platform as a service (PaaS) / Function as a Service (FaaS) / OpenFaaS / Software as a Service (SaaS)

HONOURS AND AWARDS

4 OCT 2021

DevOps Deployment Automation with Terraform, AWS and Docker – Udemy

Certification award in completion of my project of automating the production-grade deployment of dockerized applications in AWS using Terraform.

<https://www.udemy.com/certificate/UC-9fcc49bb-b6be-416c-a4dd-22e0bb1f77d0/>

CREATIVE WORKS

27 JUN 2021 - CURRENT

Professional Blog

My Professional Blog provide details about my job experience, skills, CV, technical blogs, and more

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