Mounika Appalashetty

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**SUMMARY**

Seasoned DevOps Engineer and Cloud Specialist with over 10 years of hands-on experience in configuration management, build/release engineering, Linux system administration, and cloud technologies. Proven expertise in implementing robust CI/CD pipelines, designing secure cloud architectures, and automating infrastructure with various tools. Adept at working with AWS, Azure, Google Cloud Platform, and Alibaba Cloud. Experienced in deploying and managing applications on Kubernetes, Docker, and various cloud services.

# TECHNICAL SKILLS

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| **CI/CD Tools** | **:** | Jenkins, GitLab CI/CD, CircleCI, Travis CI, TeamCity |
| **Version Control** | **:** | Git, GitHub, Bitbucket, GitLab, Azure |
| **Configuration Management** | **:** | Ansible, Puppet, Chef, SAlt Stack |
| **Containerization & Orchestration** | **:** | Docker, Kubernetes, Docker Compose, Helm |
| **Cloud Platforms** | **:** | AWS, Azure, Google Cloud Platform (GCP), Alibaba Cloud |
| **Infrastructure as Code (IaC)** | **:** | Terraform, CloudFormation |
| **Monitoring and Logging** | **:** | Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Splunk, New Relic, Nagios, Vqos |
| **Scripting Languages** | **:** | Bash, Python, Ruby, PowerShell |
| **Networking and Security** | **:** | Network protocols, Firewalls, Security best practices, SSL/TLS |
| **Database Management** | **:** | MySQL, PostgreSQL, NoSQL (MongoDB, Redis) |
| **Web Servers and Proxy Servers** | **:** | Nginx, Apache, HAProxy |
| **Automated Testing:** | **:** | Unit testing, Integration testing, Selenium |
| **Operating Systems** | **:** | Unix, Linux (Ubuntu, Debian, Red Hat, CentOS,), Solaris, Windows |

# PROFESSIONAL EXPERIENCE

**Client: :** Byte Dance

**Location :** Mountain View, California

**Role :** Site Reliability Engineering

**Duration :** Feb 2022 - Present

**Responsibilities** **:**

* Implemented Grafana dashboards for the production infrastructure as a part of enhanced monitoring.
* Performed Critical scanning to analyze the infrastructure daily.
* Working on a on call rotation managing the live production system.
* Responding to incidents and helping the team to resolve the incidents as per priority level.
* Leveraging solutions to fixks in an incremental phase.
* Managing additional capacity of servers to serve high production traffic.
* Work closely with support teams and cross functional teams to maintain high latency of the application.

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| **Client**  **Location**  **Designation**  **Duration**  **Responsibilities** | **:** Toyota (TMNA)  **:** Plano, TX  **:** AWS/DevSecOps Engineer  **:** June 2021 - Jan 2022  **:** |

* Spearheaded DevOps efforts across key projects including NAPO, TDB, and My Vehicle.
* Implemented Java Singleton design patterns, enhancing global access to instances.
* Successfully migrated on-premises mobile applications to GCP, transforming code into microservices using Google Cloud SDK Shell.
* Designed and implemented Singleton patterns for logging, driver patterns, caching, and thread pool optimization.
* Automated build/deployment processes using Ansible playbooks, contributing to overall process enhancement.
* Automated local development environments using Ansible for increased efficiency.
* Improved Jenkins job configuration using Groovy scripting for better backup and manageability.
* Implemented GCP Firewall rules, optimizing traffic and utilizing GCP Cloud CDN for content delivery.
* Managed SVN repositories, developing Shell/Groovy scripts for automation, branching, merging, and tagging.
* Automated data pipelines using Azure Data Factory and developed Azure Logic Apps for automated emails.
* Contributed to the migration of legacy applications to the Azure platform.
* Developed a cost optimization framework, leading initiatives to enhance cloud spending efficiency.
* Extensive experience in migrating from on-premises services to the cloud, working with various operating systems.
* Led Linux infrastructure projects, designing, planning, and configuring multiple Linux flavors.
* Managed Linux clusters, including native and VETIAS clusters.
* Proficient in container deployments and Kubernetes for the electric car automation project.
* Deployed and managed applications on AWS instances, utilizing EC2, VPC, ELB, and other services.
* Engaged in monitoring, alerting, and trending using AWS CloudWatch, SNS, New Relic, and ELK.
* Developed global monitoring systems using Grafana, Prometheus, Thanos, and introduced Prometheus and Grafana dashboards.
* Implemented lightweight metrics and logs forwarding with Fluentbit, Telegraph, and MerticBit.
* Hands-on experience with GCP, AWS, and Kubernetes Engine.

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| **Client**  **Location**  **Designation**  **Duration**  **Responsibilities** | **:** Ascena Retail Group  **:** Pataskala, OH  **:** AWS/DevOps Engineer  **:** March 2020 – Jan 2021  **:** |

* Administered multiple applications involving different development teams, managing concurrent software releases. Built and maintained robust CI/CD pipelines for SDLC activities in non-production and production environments.
* Utilized Amazon Web Services (AWS) components, such as EC2, VPC, ELB, Autoscaling Groups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront, SNS, and RDS to oversee microservices and Chef configurations.
* Developed Infrastructure as Code (IaC) using Lambda, AWS CloudFormation, and Puppet for test servers on the Next Generation platform.
* Successfully migrated legacy applications to the GCP and Azure platforms.
* Implemented cost optimization frameworks and mechanisms, significantly reducing AWS costs through EC2 utilization optimizations.
* Deployed artifacts on GCP platforms using Packer and managed various GCP services including Compute Engine, App Engine, Cloud Storage, VPC, Load Balancing, BigQuery, Firewalls, IAM Role, and Stack Driver.
* Lowered AWS costs from 40k to 18k per month by implementing Autoscaling and optimizing EC2 clusters.
* Installed and configured Nexus repository manager for efficient artifact sharing and optimized build processes.
* Implemented fully automated server build management, monitoring, and deployment using Splunk, Shell scripts, GIT, Maven, GitLab, Jenkins, Nexus Artifactory, and Puppet.
* Utilized Azure DevOps for CI/CD and data pipeline deployment, setting up New Relic for platform monitoring.
* Configured Master-Slave architecture in Jenkins to enhance performance.
* Proficient in JIRA for issue tracking, project management, change management, and release management.
* Participated in the decommissioning of on-prem data centers and migration to AWS Cloud.
* Led on-call rotation support and handled troubleshooting of application flows, resolving an average of 200 tickets per day.
* Conducted regular monitoring of system hardware, network, and applications, performing production code deployments and maintenance activities.
* Developed and maintained alerting scripts, implemented a global Grafana, Prometheus, Thanos metric, and monitoring system for Kubernetes clusters.
* Expertise in using PromQL for Prometheus query matrices and setting up logging with EFK stack (Elasticsearch, FluentD, Kibana).
* Deployed lightweight metrics and logs forwarding with Fluentbit, Telegraph, and MetricBit to various output plugins.

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| **Client**  **Location**  **Designation**  **Duration**  **Responsibilities** | **:** USAA  **:** San Antonio, TX  **:** DevOps Engineer  **:** Nov 2015 - Feb 2020  **:** |

* Led cloud automation initiatives for a dynamic team overseeing various development projects and simultaneous software releases.
* Utilized extensive AWS Services such as EC2, S3, VPC, ELB, Autoscaling Groups, Route 53, IAM, CloudWatch, CloudFormation, SNS, and RDS to ensure efficient and scalable cloud operations.
* Implemented Ansible scripts for automated server provisioning and Docker image creation, significantly reducing deployment time from over 3 hours to less than 10 minutes.
* Designed and executed AWS virtual servers through Ansible roles, ensuring seamless deployment of web applications.
* Developed and troubleshooted Ansible scripts for Kubernetes, utilizing YAML files to automate CI/CD application deployment, resulting in both time and cost savings.
* Implemented Auditing for Kubernetes Cluster and monitored logs locally using ELK and Nagios for various application logs.
* Established a robust CI/CD pipeline with Jenkins, GitHub, Nexus, Maven, and AWS AMI, streamlining the software development lifecycle.
* Automated data pipelines using Azure Data Factory and developed Azure Logic Apps for automated communication after the completion of data pipelines.
* Successfully migrated legacy applications to the Azure Platform, focusing on creating a cost optimization framework and governing mechanism.
* Maintained Docker images for a tech stack, including Cassandra, Kafka, Apache, and in-house Java services, running on AWS Instances on Kubernetes.
* Worked with Kubernetes and EKS, deploying PODS for applications like Tomcat, WebLogic, JBOSS, and databases like Cassandra. Configured helm charts for automation and deploying replica sets.
* Utilized Azure DevOps for CI/CD and data pipeline deployment, connecting continuous integration systems with GIT repositories.
* Installed and configured Nexus repository manager for efficient artifact sharing and created proxy Nexus repositories to accelerate the build process.
* Designed and implemented fully automated server build management, monitoring, and deployment using technologies such as Splunk, Shell scripts, GitLab, Maven, Jenkins, SonarQube, Nexus, Junit, and Ansible.
* Used Elastic Load Balancer (ALB & CLB) for pinging EC2 instances in a round-robin process and health checking, along with Route 53.
* Proficient in Docker, Docker Swarm, Kubernetes, and Ansible for building automation pipelines and production deployment.
* Implemented Master-slave architecture in Jenkins to enhance performance and expertise in JIRA for issue tracking, project management, Change Management, and Release Management.
* Actively contributed to the research of project application architecture to support/resolve build, compile, and test issues/problems.

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| **Client**  **Location**  **Designation**  **Duration**  **Responsibilities** | : Everest Global Solutions  : India  : Full Stack DevOps/Build & Release Engineer  : Jan 2014 - Aug 2015  : |

* Maintained and Administered GIT Source Code Tool. Migration of the Source Code from Apache Subversion (SVN) to GITHUB, and the migration from GITHUB to BitBucket. Maintained branching and build strategies utilizing GIT.
* Implemented a GIT mirror for SVN repository, which enables users to use both GIT and SVN.
* Installed and Configured Jenkins for Automating Deployment and automation solution. Used Jenkins for Automating Builds and deployed builds.
* Familiar and experienced with Agile Scrum development. Supporting Build, deployment, and release process. Requirement analysis for new enhancements of the build process.
* Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
* Started the automation process by setting up a Continuous Integration (CI) environment using Jenkins, Nexus.
* Build and Deploy Java/J2EE to a web application server in an Agile continuous integration environment and automated the process. Involved in editing the existing MAVEN files in case of errors or changes in the project requirements.
* Developed build and deployment processes for Pre-production environments. Responsible for designing and deploying SCM processes and procedures.
* Resolved merging issues and re-integrating branches by conducting meetings with Development team leaders.
* Supported and developed tools for integration, automation, and release management. Resolved merging issues and re-integrating branches by conducting meetings with Development team leaders. Developed, maintained, and distributed release notes for each scheduled release.

**Projects**

* **Automated Cloud Migration (Byte Dance)**
* Migrated legacy application to AWS, reducing infrastructure costs by 30%.
* Implemented automated deployment pipelines using Jenkins, Terraform, and Ansible.
* Ensured high availability and fault tolerance through AWS services like Auto Scaling and ELB.
* **Kubernetes Orchestration (Toyota)**
* Led implementation of Kubernetes for container orchestration, managing microservices.
* Designed and deployed Helm charts for efficient deployment and versioning.
* Achieved horizontal scaling of applications, improving overall system responsiveness.
* **Security Automation (USAA)**
* Implemented security best practices using Ansible playbooks for configuration hardening.
* Automated security scanning processes, reducing vulnerabilities, and ensuring compliance.
* Conducted regular security audits and collaborated with the security team to address findings.