TARUN CHAND ILLAPU

DevOps/ Cloud Engineer

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Summary

- Around 4 years of expertise in DevOps, Software Development Life Cycle, object-oriented programming, developing and testing Client/Server, Enterprise, and Web Applications.
- Well-versed in Docker, Kubernetes, and OpenShift for efficient container orchestration and management.
- Good experience in Kubernetes to deploy scale, load balance and manage Docker containers with multiple name-spaced versions and skilled in automating workflows, optimizing deployments, and ensuring high availability.
- Experience in Designing and managing public/private cloud infrastructures using Confidential Web Services (AWS) which include EC2, S3, Cloud Front, Elastic File System, Cloud Watch, Cloud Trail, Cloud Formation, and IAM which allowed automated operations.
- Capable Cloud Engineer dedicated to Delivering Excellence in Multi-Platform LAN/WAN, and Cloud Environments within Challenging Client-Driven Operations.
- Adept in Terraform, and Azure Resource Manager Templates for automated and scalable infrastructure provisioning.

Education

Master's in computer science | New Jersey Institute of Technology, Newark, NJ | May 2024

Bachelor's in computer science | Vignan's Institute of Information Technology | Aug 2021

Skills

Scripting Languages: Bash, Python, SQL, PowerShell, Ruby, Unix/Linux Scripting
CI/CD Tools: Ant, Maven, Gradle, Jenkins, Bitbucket, GitLab CI
Orchestration and Containerization: Docker, Kubernetes, Splunk, Ansible
Infrastructure as Code (IaC): Terraform, Azure Resource Manager Templates
Cloud Platforms: Azure, AWS, GCP
Networking: TCP/IP, DNS, HTTP/HTTPS, Load Balancing, VPN
Security: Identity and Access Management (IAM), Security Best Practices
Database Management: Oracle, MySQL, PostgreSQL, MongoDB, SQL Server, Apache, WebLogic, Couchbase
DevOps Tools: Kafka Datadog, Prometheus, Grafana Instana, VirtualBox, Chef, Puppet, Junit, SOAP
Version Control/ Other Tools: ServiceNow, Mockito, Swagger, SVN, Git/GitHub, Jira, Junit, Postman, SOAP, MS Office, GitLab
DevOps Methodologies: Agile, Scrum
Operating Systems: Windows

Experience

Cognizant Technology Solutions, USA | Cloud/ DevOps Engineer | Jan 2024 - Current

- Develop and maintain automation scripts in PowerShell for system configuration, deployment, and task automation, reducing manual intervention and enhancing efficiency.
- Orchestrated infrastructure on AWS, utilizing Terraform to achieve infrastructure as code, resulting in a 30% decrease in provisioning time.
- Automate build, test, and deployment processes using Maven, and Gradle, reducing manual errors and ensuring consistent software delivery across multiple projects.
- Implement disaster recovery and backup strategies on Azure ensuring data integrity and business continuity in case of system failures or disruptions.
- Manage and orchestrate Docker containers, ensuring their efficient deployment, and monitoring across development, and testing.
- Maintained and supported local/wide area network (LAN/WAN), and Networking Technologies (TCP/IP, BGP, OSPF, SNMP, STP).
- Leveraged Kubernetes Helm charts to automate deployments, ensuring consistent and repeatable application updates across all environments.
- Implement and manage Ansible playbooks and chef recipes/cookbooks to automate configuration tasks across multiple servers.

IBM, India | DevOps Engineer | Jun 2021 - Jul 2022

- Developed and maintained scripts for automation and configuration management using Python and Bash.
- Conducted cost analysis and optimizations, reducing cloud infrastructure spending by 15%.
- Developed Python script that fetches sandbox information from AWS EC2 and inserts it into a confluence wiki page.
- Implemented logging and log aggregation solutions with ELK Stack and Splunk, facilitating real-time analysis and troubleshooting.

- Managed configuration and infrastructure using Ansible, ensuring consistency and reliability across environments.
- Orchestrated infrastructure on AWS, utilizing Terraform to achieve infrastructure as code, resulting in a 30% decrease in provisioning time
- Executed robust backup and recovery strategies for MySQL databases, ensuring data integrity and minimal downtime in case of failures.
- Deployed AWS Lambda serverless applications integrated with DynamoDB, Amazon API Gateway, and AWS X-Ray, boosting application performance by 25%.
- Managed CI/CD pipelines with GitLab CI, Jenkins, and AWS Code Pipeline, automated Terraform provisioning with AWS CloudFormation, reducing setup time by 30%.

Deloitte, India | Cloud Support Engineer | Mar 2019 - May 2021

- Managed sprints and release cycles using Agile and Scrum methodologies, ensuring timely delivery of high-quality software increments and coordinating release activities across teams.
- Leveraged scripting languages for debugging and troubleshooting complex system issues, ensuring quick resolution.
- Identified and resolved performance bottlenecks within containerized environments, optimizing resource allocation and enhancing applicationstability using Kubernetes, and OpenShift monitoring tools.
- Reduced deployment time by 30% by implementing automated CI/CD pipelines using Jenkins, GitLab CI/CD, and AWS Code Pipeline
- Extended web services using RESTful and SOAP protocols, implemented unit tests with JUnit, enhancing code reliability and reducing bugs by 35%.
- Collaborated on Azure projects involving VMs, and Azure Monitoring/Insights seamlessly integrating them with Jenkins to optimize and automate critical processes. Develop and manage Splunk dashboards to visualize and analyze data collected by Prometheus or other monitoring tools for performancemonitoring and trend analysis.

Certifications

AWS Certified Cloud Practitioner | Credential ID: RC6WR5CBQEBQ15KJ | Dec 2023

Publications

A Comparative Study on Construction of 3D Objects from 2D Images, SMART-DSC 2021 Sep 2020 - Feb 2021
4th International Conference on Smart Technologies in Data Science and Communication - Springer, 2021

- Conducted comparative analysis of methods for generating 3D objects from 2D images, highlighting advantages and limitations
- Developed novel approach using GANs for constructing 3D models from 2D images, showing improved results
- Identified future research directions, emphasizing GAN applications in medical imaging, pandemic detection, and virtual reality

Achievements / Leadership

- Representative for Computer Science Department in the Graduate Student Association at NJIT.
- Student Associate in Strategic Events and Conference Services at NJIT
- Chair, Vignan's ACM Student Chapter, fostering collaboration and engagement while representing the chapter in ACM events.
- Organized a 24hour National Wide Hackathon as a part of ACM 2019 and Coordinator for Vignan Technical Fest 2020 associated with GitHub, Microsoft Student Partner, Code-Chef and Open Student Community