

ASHISH SINGH

Achievement-driven Professional targeting assignments as **Senior DevOps Engineer** with an organization of high repute in



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Profile Summary

- A detail-oriented professional with over 8+ years of experience in Automation, Security, Cloud, NOC and other Operations-related tasks.
- Proficient at diagnosis & rectification of faults aimed at enhancing operational and automation effectiveness underlying projects
- Expertise in resolving technical issues through root cause analysis of problems and in initiating corrective actions
- Experience in escalating overall productivity & efficiency of projects and reducing downtime of applications by implementing alerting and monitoring.
- Resourceful in managing multiple projects by dividing each task into subtasks to provide under the SLA's.
- Possess extensive knowledge of Kubernetes, Cloud(AWS, AZURE), Docker, Linux Ops, Scripting Languages (Python, Shell), etc.
- Expertise in Cloud Server Administration and Network Administration
- Knowledge of various tools like Kafka, Jfrog Artifactory, Zookeeper, Graylog, Mesos, Chronos, Ansible, Puppet, Spinnaker, Prometheus, Zabbix, terraform and many more.
- Rich project management experience with expertise in developing project baselines, monitoring & controlling projects concerning cost, resource deployment, & quality compliance to ensure satisfactory execution
- An enterprising leader with skills in leading personnel towards the accomplishment of common goals



Core Competencies

Orchestration(Kubernetes, EKS, AKS, Docker Swarm)

Troubleshooting Analysis & Root Cause

Monitoring(AppDynamics,Zabbix, Prometheus etc)

Security (AquaScan, AlienVault, Chronos)

Resource Planning & Management

Cloud Administrations(AWS, Azure GCP)

Soft Skills



Education

- B.Tech. (CSE from Lovely Professional University, Phagwara in 2017 with 6.67 CGPA)
- 12th from CBSE in 2013 with 58%
- 10th from CBSE in 2010 with 56%

DevOps Tools

Containerization: Docker, Docker-Compose, ACS and ECS

Orchestration: Kubernetes, AKS, EKS and Docker Swarm

Alerting & Monitoring: Istio, Zabbix, Prometheus, Grafana, Appdynamics, Alertmanager, AWS Cloudwatch, Azure Monitor

Security: Alien-Vault, Appdynamics, AquaScan, Anchor, Chronos

Others: AWS CDK, Ansible, Helm, Jenkins, Jboss, Behat, Zookeeper, Mesos-Marathon, Jfrog Artifactory, etc.

Technical Skills

Language: Python, C++

Operating System: Linux Based and Window Based

Cloud Services: AWS, GCP & Azure

Scripting: Shell, BASH

Workshops / Certifications/ Seminars

- KubeCon and CNCF Workshops, Delhi
- AMCAT Certified Software Engineer
- Shannon 3rd International conference on computing science
- Ethical Hacking with Rahul Tyagi Lucedius



Notable Achievements Across Career

- Continuous Performance Growth- Awarded by Project Head, Truefit Corporation
- Always On - Awarded by Ashish Goel, Srijan Technologies
- Promoted to DevOps L2 within 3 months, Srijan Technologies
- Gold Medalist at Disc throw, Defence Sport Club
- Volunteer in Go-Kart Championship, Lovely Professional University



Work Experience

Since October'24 with ANTRA INFO SOLUTIONS. Location as Sr. DevOps Engineer



Project History

Name of the project: Expedia Group (Hotel/Tour services worldwide)

Environment: LINUX & UNIX & WINDOWS

Description: They offer a wide range of services to end users and also work with many B2B Platforms.

Responsibilities :

- Focused on Service Excellence by managing the infrastructure for seven different direct client hotels, including Expedia and Travellers, with a commitment to maintaining zero tolerance for quality and a 99.99% Service Level Objective (SLO) for infrastructure and applications.
- Oversaw the management of more than 600 clusters across various AWS accounts, ensuring effective resource management, patching activities, and ownership of each domain.
- Led war-room operations, achieving success in incident segregation and minimising losses in terms of effort and cost.
- Managed a complex Kubernetes system using a combination of in-house built tools and technologies alongside 70% open-source tools, with extensive self-customisation.
- Utilised tools such as IAM authentication, Teleport, EGCTL, Karpenter, Flux, Nomad, Jenkins, GitHub, and various AWS resources to enhance operational efficiency and system reliability.
- Managed the migration from the old Mesos Marathon Nomad Puppet-based infrastructure to a new architecture, ensuring minimal downtime or zero downtime and seamless transition.
- Leveraged in-depth knowledge of AWS services to optimise cloud infrastructure, ensuring scalability, security, and cost-effectiveness.
- Conducted training sessions for team members on the new infrastructure and processes to ensure everyone was up to speed..
- On-Call responsibilities to handle the waste system.

June'23-October'24 with ApplyBoard India Pvt. Ltd. , Location as Sr. DevOps Engineer



Project History

Name of the project: ApplyBoard (Educational Technology Student/Recruitment partner)

Environment: LINUX & UNIX & WINDOWS

Description: They offer an "artificial intelligence-enabled recruitment platform" that helps international students apply for post-secondary studies abroad..

Responsibilities :

- Spearheaded the continuous improvement of CI/CD pipelines by implementing self-service capabilities, enhancing efficiency, and reducing deployment times.
- Researched, prototyped, and implemented new tools and services to support the engineering roadmap, resulting in streamlined operations and improved delivery of capabilities.
- Led the investigation and deployment of advanced monitoring and alerting systems, significantly improving system reliability and response times.
- Played a key role in troubleshooting and resolving escalated operational issues, ensuring minimal downtime and high availability of services.
- Conducted thorough analyses of the service stack, providing actionable recommendations that led to significant improvements in system performance and stability.
- Identified and automated several key processes, reducing manual intervention and improving overall system efficiency.
- Leveraged in-depth knowledge of AWS services to optimise cloud infrastructure, ensuring scalability, security, and cost-effectiveness.
- Worked closely with Software Engineering leads, development managers, and business stakeholders to evaluate and evolve existing technologies, contributing to the successful delivery of new initiatives.
- Used AWS CDK TypeScript for Infrastructure deployment with Jenkins and GitHub Actions.

January'22-June'23 with Pluang Technologies Pvt. Ltd., Location as Sr. Devops Engineer

Project History

Name of the project: Pluang (In-house product)

Environment: LINUX & UNIX & WINDOWS

Description: Pluang is a financial app managed and developed by PT Bumi Santosa Cemerlang, with the mission to give more access to various asset classes through micro investment products.

Responsibilities :

- I have worked on cloud management across AWS, GCP, and Azure.
- I migrated the Prometheus and Grafana monitoring systems to New Relic APM and Infrastructure monitoring. Additionally, I improved the implementation of Jenkins by creating a "Jenkins as Code" solution for one-click setup.
- I collaborated closely with the development team to transform a single module into a multi-module setup, utilising a generalised Dockerfile and Jenkinsfile.
- I conducted research and development on Cisco Meraki VPN and firewall setup, which I later implemented. I also performed a cost optimisation audit on our cloud infrastructure and worked on security auditing for cloud environments and data transfers between services.
- Furthermore, I was involved in the R&D and implementation of DefectDojo and SIEM. I set up JFrog Artifactory and integrated it with CI/CD pipelines.
- I migrated all security and firewall tools (including Horangi, Cloudflare, Nessus, Trufflehog, CrowdStrike, New Relic, GuardDuty, and configuration changes) to a unified SIEM and DefectDojo for streamlined investigation.
- I automated alerting to Terraform via New Relic and developed custom modules for cloud infrastructure. Additionally, I explored use cases to implement Terragrunt effectively.
- I participated in an audit for ISO certification, identifying gaps in our systems, implementing changes, and migrating necessary components. Lastly, I conducted an audit of IAM across the organisation, developing strategies and processes for request and approval through ITSM.

October'20-January'22 with Truefit Corporation Int. Pvt. Ltd., Location as Sr. DevOps Engineer

Project History

Name of the project: Marketplace (In-house product)

Environment: LINUX & UNIX

Description: Marketplace was an all-in solution for other Truefit Corporation products, which makes them competitors of other shopping sites (like Amazon, Flipkart, etc). So, I was appointed as the complete DevOps for this project to set up an end-to-end solution for this product.

Responsibilities :

- I worked on the migration of a Marketplace project from AWS to GCP. I set up the entire infrastructure on GCP for this Marketplace project from scratch. I also established a CI/CD setup using Jenkins and GitLab CI/CD tools.
- Additionally, I wrote the Dockerfile and Kubernetes YAML files for the project. I conducted research and development on new tools and technologies that would best serve the automation needs of the Marketplace project.
- Throughout this project, I utilised various tools and services, including Consul, JFrog Artifactory, Helm, Terraform, GKE, Vertex AI, FluxCD, Puppet, Ansible, and Scaffold, among others.
- Furthermore, I delivered an engineering session to the India team focused on different DevOps tools..

June'19-October'20 with Srijan Technologies Pvt. Ltd., Location as Devops Engineer L2

Project History

Name of the project: Estee Lauder

Environment: LINUX & UNIX

Description: Estee Lauder is an American multinational manufacturer and marketer of prestige skincare, makeup, fragrance and hair care products, which are based on a waste infrastructure on Azure cloud with multiple supporting applications.

Responsibilities :

- Managing the Azure Cloud environment primarily through Azure Kubernetes Service (AKS) and other related services.
- Conducting the migration of shell scripting to a pure Groovy-based CI/CD pipeline.
- Overseeing fast and incremental deployments using Jenkins, Spinnaker, AquaScan, and similar tools across the clusters.
- Implementing containerised deployments to ensure reliable and accessible IT solutions 24/7.
- Automating services and addressing ongoing issues using shell scripting and Python.
- Providing support for Drupal issues to enhance automation and engagement.
- Troubleshooting and parsing logs into relevant formats using syslog and Logstash server-based applications.
- Migrating the entire infrastructure from Azure Container Service (ACS) to AKS with a strong focus on security and precautions.
- Implementing a base image to synchronise the setup on local development machines using Docker Swarm and Docker Compose.
- Adopting a "one service, one container" approach.
- Conducting a comprehensive scan of the entire infrastructure to identify and fix vulnerabilities, thereby minimising potential risks.



Project History

Name of the project: Samsung(Artik Cloud)

Environment: LINUX & UNIX

Description: Samsung uses AWS and other cloud-based services to serve their clients through more than 800 servers using cluster-based infra with automation tools- Docker, Ansible, Puppet, Connectors, Bitbucket, Mesos-Marathon, etc.

Responsibilities :

- Mainly managing the Amazon Cloud environment (More than 800 Servers Running)
- Weekly Patching using Ansible cookbooks and AWS RunCommands.
- Managing fast and Incremental deployment through Jenkins, Ansible, Marathon, etc., cluster
- Troubleshooting cloud server and IT infrastructure issues under SLA.
- Managing a Cluster of various automation tools
- Containerised deployment provides IT solutions- Reliability and accessibility of services 24*7.
- Prepare daily reports for SLA management.
- Monitoring Samsung infrastructure through Nagios, Prometheus, Marathon, Mesos, and AWS CloudWatch.
- Automate the services and fix the ongoing issues using shell scripting and Python scripting.
- Troubleshooting & parsing logs into a relevant form using syslog, logstash, graylog cluster.
- Create or Scale up or Scale down infra using - AWS, Marathon, Docker, etc.



Project History

Name of the project: YMCA

Environment: LINUX, UNIX & WINDOWS

Description: Running in-built applications which help to automate the machinery and their wear and tear as well as multiple websites hosted on data centres and the cloud.

Responsibilities :

- Mainly managing the Amazon Cloud environment (More than 800 Servers Running)
- Weekly Patching using Ansible cookbooks and AWS RunCommands.
- Managing the Rackspace Cloud environment.
- Responsible for Day-To-Day Server administration and operational tasks
- Applications, Web servers (Apache, IIS, Jboss) and AWS cloud service management.
- Implement a load-balancing environment through the Piranha and HA-Proxy tools.
- Providing User Privileges, Restricting Permissions and creating Group Policies and implementing
- Implemented the Release and Deployment of web archives (war).
- Automate services through AWS.
- Implementing servers, Application and database monitoring through the Zabbix tool.



Internship

Name of the organisation: Shreyanshi Consultancy Pvt. Ltd.

Duration: Sept'15-July'16

Description: It provides summer training on various platforms (CSE, Mechanical, ECE).

Responsibilities :

- Got Certification on ASP.NET
- Worked as a Course planner and Coordinator.
- Got the knowledge of user satisfaction and the importance of the reliability of services.
- Improve class management and support to enhance training quality.

Personal Details

Date of Birth: 4th June 1994

Language Known: English & Hindi

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