

Harshit Luthra

INFRASTRUCTURE LEAD · SECURITY ANALYST

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"I like my coffee just like my humor; dark, very very dark"

Summary

A Tinkerer with 5 years of hands-on experience, Infrastructure Lead with extensive expertise in Kubernetes, security best practices, and the utilization of CNCF tools. Proven track record of designing, implementing, and managing robust infrastructure solutions that optimize performance, security, and scalability.

Experience

Primetrace (Kutumb Crafto)

India

INFRASTRUCTURE LEAD (FOUNDING ENGINEER)

Feb. 2021 - Present

- Implemented Centralized Monitoring, APM, Logging, Profiling, Alerting using Prometheus, Grafana, Elastic-APM, Pyroscope, Loki, Robusta.
- Setup and Maintained Multi-broker Apache Kafka, and multi-node ELK Stack on spot instances.
- Implemented robust network policies and role-based access control (RBAC) configurations, enhancing the security posture of the Kubernetes cluster and reducing potential attack vectors.
- Ran Stateless Workloads on 100% Spot instances with 99.99 uptime, Time based scaling & Node hibernation during less traffic hours.
- Setup of Deployments under 1 min using Caching with Self-hosted Github-Runners on Spot, ArgoCD, Devtron.
- Implemented and maintained OpenVPN inside K8s for easy Networking between On-cluster services from dev-machines.
- Implemented continuous profiling for debugging OOMs and High CPU Usage.
- Implemented RED & USE methodologies for alerting and monitoring Applications & Underlying Nodes.
- Led Multiple Migrations & Software Up-gradations on-cloud and self-hosted.

smallcase

India

DEVOPS ENGINEER

Feb. 2019 - Sep. 2020

- Maintained OpenVPN, heartbeat, Elastalert, Grafana.
- Setup and Maintained Multi-broker Apache Kafka, and multi-node ELK Stack on spot instances.
- Setup and maintained Multiple Open source tools eg: Wiki.js, Sentry, JFrog Artifactory.
- Replaced Filebeat and Logstash with CNCF-Fluentd for performance benefits.
- Wrote and maintained Ansible scripts for automatic deployments of Infra-tools Eg logrotate, backup scripts, td-agent etc.
- Added Open-source tools on top of Infrastructure to support easy development, such as : Elastic-apm, Kafka-mananger, Kafka-topics-ui
- Restructured CI/CD Pipelines in Jenkins and Code-deploy.
- Migrated to a Mix architecture Comprised of Reserved and Spot instances from On-demand instances To save costs.
- Added Haproxy for supporting GRPC calls on Layer 7 LB.
- Cost Optimisation Tasks, reduced Bill down to 10x.
- Supported a secure proxy via nginx to reach an internal network for Gitlab Webhooks and setup of same on Jenkins.
- Setup of Instance status check Alarms and SES Alarms on Template rendering failures.
- Migration and automated Backups of WP blogs.

Udacity

India

PROJECT REVIEWER-STUDENT MENTOR

Apr. 2018 - Present

- An online certification program for Android developers with previous experience building web or mobile applications in Java or another object-oriented programming language.
- I guided students through the course and reviewed their project submissions.

Utopian.io

Italy

BUG HUNTING COMMUNITY MANAGER

Jun. 2018 - Present

- Review Bugs for many open source projects under the hood of Utopian.io

Skills

- Programming** C, C++, Java, Python, Kotlin, Bash, Go, Rust
Linux, Docker, Ansible, Jenkins, Kubernetes, Terraform, CloudFormation, Karpenter, ArgoCD, Kubeflow, Coroot,
- DevOps** Prometheus, Loki, Grafana, Pyroscope, Tempo, Elasticsearch, MySQL, PostgreSQL, Kustomize, Meshery, Vegeta, ELK, AWS, Azure, GCP
- Utilities** Vim, Git, Android Studio, Gradle

Education

Chitkara University

Punjab, India

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Jul. 2016 - 2020

- Completed Degree with **9.29 CGPA** with specialization in Cyber-Security
- Completed an advanced programme in cyber security and cyber forensics prepared by QuickHeal technologies.

Honors & Awards

HACKATHONS

- Sep. 2018 **Winner**, MSHacks 2.0 - Microsoft Hackathon *LPU, Jalandhar*
- Mar. 2018 **Runners Up**, Octahacks *Chandigarh*
- Mar. 2018 **Winner**, Code Breakers *CSI Chandigarh*
- Mar. 2018 **Runners Up**, SAP Next-Gen Hackathon *Chandigarh*
- Mar. 2017 **Runners Up**, Codex C++ *CSI Punjab*
- Mar. 2018 **Participant**, Hackoverflow 1.0 *Tech Invent, CU*
- Feb. 2018 **Certified**, Bitcoin Professional *Cialfor*
- Feb. 2018 **Participant**, Codeheat *FOSSASIA*

Extracurricular Activity

VIRGO Labs

Pisa, Italy

SCIENCE OUTREACH EVENT

Sep. 2018

- Participated in Science Outreach Event under the recommendation of a professor from France.

Explore Fest'18

Chitkara University

WEB DESIGN HEAD

Mar. 2018

- Designed and Developed the webpage for Explore Fest

Cisco Networking Academy

Chitkara University

PARTICIPANT

Jul. 2017

- Participated in Introduction to IOT Course

Certificates

Kubernetes

Linux Foundation

June 2023 - June 2025

- CKS: Certified Kubernetes Security Specialist - LF-fty09fzmce
- CKA: Certified Kubernetes Administrator LF-4j07bu8tsj

AWS

ASSOCIATE SOLUTIONS ARCHITECT - CERTIFICATION

Aug. 2019 - Aug 2024

- License no K71S1HB13NBEQT5N

Udacity

NANODEGREES

- Android Basics Nanodegree
- Intro to Data Structures Nanodegree
- Python Foundation Nanodegree
- Intro to Programming Nanodegree

India

2018

CEH Certification

CERTIFICATION

- Completed the Course for CEH Certification under CEH experts.

Harksh Technologies Pvt. Ltd.

Jun 2015