Harshit **Luthra**

INFRASTRUCTURE LEAD · SECURITY ANALYST

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"A tinkerer with a curious mind"

Summary

Proven expertise in orchestrating cutting-edge solutions, spanning Azure, AWS, datacentre, and private cloud ecosystems. Recognized for pioneering and automating CI/CD pipelines, ensuring seamless software delivery. Adept troubleshooter, specializing in resolving intricate issues related to networking, databases, storage, serverless components, and cloud VMs. Talented innovator, known for delivering data-driven solutions and designing cost-effective technical infrastructure in fast-paced organizational settings. Demonstrated proficiency in aligning technology initiatives with business objectives. Well-versed in building and fostering solid relationships with stakeholders to attain project completion and delivery within time and budgetary restraints

Experience

Primetrace (Kutumb Crafto) — *India*

INFRASTRUCTURE LEAD (FOUNDING ENGINEER) — *Feb. 2021 - Present*

Define infrastructure architecture and ensure alignment with business goals. Lead multiple migrations and software upgrades, both on-cloud and self-hosted environments to enhance system performance. Utilise RED and USE methodologies for efficient issue detection and resolution. Leverage cutting-edge technologies, including Prometheus, Grafana, Elastic-APM, Pyroscope, Loki, and Robusta, to assure seamless system oversight.

- 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.
- Reduced deployment times to under one minute by using caching with Self-hosted GitHub-Runners on Spot, ArgoCD, and Devtron.
- Strengthened overall security posture by executing robust network policies and role-based access control (RBAC) configurations.
- Employed and maintained OpenVPN within Kubernetes cluster, simplifying networking between on-cluster services and development machines.
- Maintained 99.99% uptime by running stateless workloads on 100% spot instances, implementing time-based scaling, and utilizing node hibernation during periods of reduced traffic.
- Spearheaded integration of comprehensive monitoring stack, encompassing centralized monitoring, Application Performance Monitoring (APM), logging, profiling, and alerting.

smallcase — *India*

DEVOPS ENGINEER — *Feb. 2019 - Sep. 2020*

Ensured smooth operations of essential infrastructure components, including OpenVPN, Heartbeat, Elastalert, and Grafana. Managed and integrated various open-source tools, such as Wiki.js, Sentry, and JFrog Artifactory to support diverse project requirements. Developed and maintained Ansible scripts to automate deployments of infrastructure tools, including log rotation, backup scripts, and td-agent. Restructured CI/CD pipelines within Jenkins and CodeDeploy to optimise deployment workflows. Established instance status check alarms to monitor system health and SES alarms. Oversaw WordPress (WP) blogs by executing migrations and automated backup solutions.

- Reduced infrastructure expenses to a mere 10% of previous costs by leading cost optimisation initiative.
- Implemented Haproxy to improve network performance, resulting in faster and more efficient data transmission.
- Streamlined development processes by adding open-source tools like Elastic-apm, Kafka-manager, and Kafka-topics-ui to infrastructure.
- Enhanced data processing capabilities by establishing robust multi-broker Apache Kafka system and multi-node ELK Stack on spot instances.

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 there 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
DevOps	Linux, Docker, Ansible, Jenkins, Kubernetes, Terraform, CloudFormation, Karpenter, ArgoCD, ArgoWF, Kubeflow, Coroot, Prometheus, Loki, Grafana, Pyroscope, Tempo, Elasticsearch, MySQL, PostgreSQL, Kustomize, Meshery, Vegeta, ELK, AWS, Azure, GCP
Utilities	Vim, Git, Android Studio, Gradle, Wireshark, binwalk, tcpdump, netcat, telnet

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*

Extracurricular Activity

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   *India*

Nanodegrees   *2018*

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