

Contact

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Top Skills

Google Kubernetes Engine (GKE)

Argocd

Helm

Languages

Punjabi

English

Hindi

Certifications

Red Hat Certified System
Administrator (RHCSA)

Hardeep Singh

Senior DevSecOps Engineer | AWS · EKS · Terraform · CI/CD |
Cloud Security & Automation | Exploring Agentic AI & AI-Assisted
Development

Pune District, Maharashtra, India

Summary

I'm a Senior DevOps / DevSecOps Engineer who builds, secures, and optimizes cloud-native infrastructure on AWS, working with clients in Singapore. My core stack is EKS, Terraform, CloudFormation, and the wider AWS ecosystem.

I deploy product data pipelines into client environments and take products to stable, production-ready operation. I design end-to-end CI/CD pipelines — code and container scanning with Trivy, coverage checks, builds to Amazon ECR, and deployments via ArgoCD — and automate security-critical tasks like rotating RDS passwords and IAM keys with AWS Lambda. I also remediate vulnerabilities, enforce compliance benchmarks, and optimize EKS node groups to cut infrastructure cost.

Outside the core work, I love building with Claude and I'm deeply interested in agentic AI and AI-assisted development — and how they're reshaping the way we ship software.

When I'm not working with code, you'll find me singing, listening to music, and playing instruments — creative outlets that keep me balanced and energized.

Experience

Ollion

Senior DevSecOps Engineer

July 2024 - Present (2 years)

Pune, Maharashtra, India

Senior DevOps Engineer delivering cloud-native infrastructure on AWS for clients based in Singapore. Stack: EKS, Terraform, CloudFormation, and the wider AWS ecosystem.

Deploy product data pipelines in client environments and drive products to full production readiness, collaborating closely with development teams and clients throughout.

Built automation with AWS Lambda to rotate RDS database passwords every 60 days and IAM access keys on a defined schedule, strengthening security posture with minimal manual effort.

Remediate client-reported security vulnerabilities and ensure all deployments align with established security benchmarks and compliance standards.

Design and manage end-to-end CI/CD pipelines: source code vulnerability scanning, code coverage checks, Docker image builds, container scanning with Trivy, image push to Amazon ECR, and automated deployments via ArgoCD.

Optimized EKS node groups to reduce node count and lower overall infrastructure cost without sacrificing performance.

OpsTree Solutions

Senior Devops Specialist

February 2020 - July 2024 (4 years 6 months)

Noida Area, India

- Managed complete configuration and infrastructure orchestration for major projects like Paytm Bank and Times Internet, leading to improved system reliability and scalability.
- Designed and implemented a fully automated CI/CD pipeline leveraging Jenkins, Argocd and Shared Libraries., reducing deployment time and increasing deployment frequency by 50%.
- Managed the development and deployment of a Kubernetes-based service mesh solution, resulting in reduction in network latency and a 20% increase in system performance.
- Engineered and optimized a Kubernetes-based networking solution, enhancing network performance metrics.
- Streamlined operations by writing automation scripts using Ansible playbooks and SaltStack formulas, resulting in a 30% reduction in infrastructure provisioning time and significant cost savings.
- Followed Docker's safety rules to protect images. Added extra security by signing images. Made Node.js builds a lot faster by 70%. Did this using caching and using Docker's multistage feature.
- Programmed a Python script to automate DR drill process.
- Orchestrated the setup and optimization of a robust monitoring and logging framework on Kubernetes utilizing Prometheus and the ELK stack.

- Proficient in troubleshooting common issues on a daily basis, ensuring smooth operations and minimal downtime for systems and applications.

SirionLabs

Senior DevOps Engineer

December 2018 - February 2020 (1 year 3 months)

Gurgaon, India

- Directed the optimization and real-time monitoring of cloud infrastructure on AWS, EC2, S3, and RDS, implementing automated backups, security patches, and scaling.
- Implemented a seamless blue-green deployment process leveraging AWS CodeDeploy across 20 EC2 instances, resulting in a 50% decrease in deployment errors and ensuring uninterrupted service availability.
- Executed the creation and optimization of Docker images, build scripts, and deployment tasks, utilizing AWS EC2 and autoscaling groups to streamline Java and Python project pipelines through Jenkins. Configured and Managed Prometheus and Alert Manager monitoring tools.
- Experienced in quickly diagnosing and resolving routine technical issues, ensuring continuous operation and optimal performance of systems and services.

DIGISMART DIGITAL MEDIA PRIVATE LIMITED

Devops Engineer

January 2018 - December 2018 (1 year)

Gurgaon, India

- Writing Ansible Playbooks to deploy, configure and manage servers; utilizing Docker, Jenkins, Ansible & Git
- Developing:
 - Docker images to support Development & Testing Teams
 - Scripts for build, deployment, maintenance and related tasks using Jenkins, Docker, Maven, Python & Bash
 - Managing databases like MySQL & MongoDB
 - Building Java & Python projects through Jenkins and creating pipelines
 - Monitoring installation, configuration, administration, backup & recovery, performance tuning of databases, SQL Code review & approval, applying database patches, upgradation and migrations

Mahindra Comviva

Linux System Engineer

April 2016 - January 2018 (1 year 10 months)

Gurgaon, India

- Managed VAS Projects such as Ring Me (Idea), Missed Call Alert Service (Airtel) and Voice Mail Service (Airtel)
- Developed:
 - Shell Scripts, facilitated automation of daily tasks operations and shared data on daily basis
 - Automation utilities using Bash, C and Python
 - Database objects like tables, indexes, views and so on
 - RCA documents of the responsible sites after providing resolutions of the critical/major issue
- Ensured:
 - Project implementation & upgradation
 - Deployment of Patch release on live servers for operational issues and new CR
 - Logical backup using export & import of database
 - Purging activities of the database (live schema to backup schema)
 - Conducted on-site deployment using Ansible, internal tests for setting-up the system into an operational modus and verified system for acceptance
 - Wrote Ansible playbooks and gained exposure to Jenkins & Git
- Troubleshoot:
 - Front-end applications running Apache-tomcat platform
 - Scripts using crontab to take daily backups
 - Automated the processes of data syncing (rsync) among the servers in remote locations
 - Kept a track record of and SLA of the ongoing tickets/cases of respective clients
 - Logged cases with Vendors (Red Hat) in case of server failures

Education

Lyallpur khalsa college

Bachelor of Computer Applications (BCA), Information
Technology · (2006 - 2010)

Baring college

10+2, Non medical · (2004 - 2006)