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SANDEEP KOLI, Sr. DevOps Engineer (Platform Engineering, Snowflake Inc.)

DevOps | Cloud | IoT | IaC | Git | CI/CD | Automation | Security | Containers | K8s | Serverless | Observability

CAREER OVERVIEW

12+ yrs. of diverse IT experience
DevOps, Security, Fullstack, Agile
Product Engineering (SaaS, IoT)
Quality Engineering (Compliance)
Infrastructure Engineering (IaC)
Release Engineering (SoC, AV)
Platform Engineering (CI/CD, CM)

TECHNICAL SKILLS

DevOps

Agile/Scrum/Kanban, Programming, Source Code Management, CI/CD, Package/Container Management, Container Orchestration, IaC, Cloud, Serverless, Observability, Automation, System Administration (Linux/macOS)

Project Management

Agile (Scrum, Kanban), Waterfall, Jira, Confluence, ServiceNow, Asana

Programming/Scripting

C, Python, Go/Rust/Ruby (basics), Shell Scripting, Windows Powershell

Source Code Management

Git, GitHub, GitLab, Perforce, CVS

Build Management

GNU Make, CMake, Nx, Cargo (Rust)

Package Management

rpm, deb, pkg, Munki, Gorilla, Choco; NPM/NPX, Helm; JFrog Artifactory

CI/CD

GitHub Actions, GitLab CI/CD, Jenkins, Argo CD, Azure DevOps

Container Management/Orchestration

Docker, K8s, Nomad, Docker Swarm

Cloud Computing

AWS, Azure, GCP; VMware (private)

Infrastructure as Code (IaC)

SaltStack, Ansible, Packer, Vagrant, Terraform, gcloud; Pulumi (basics)

Continuous Monitoring/Observability

osquery/fleet, Grafana, Prometheus, AlertManager, Sachet, ELK Stack

Security (SCA/SAST/DAST)

HashiCorp Vault, Black Duck, Valgrind, AquaSec Trivy; Threat Modeling

Platforms & Technologies

Operating Systems

GNU/Linux, macOS, Windows, Embedded Linux (MontaVista, Yocto)

Web Development

HTML, CSS, JS/jQuery, Bootstrap; Django, Flask, REST, GraphQL; Streamlit (Data apps)

Web/Applications Servers

Nginx, Apache, Gunicorn, Traefik; Passenger, IIS (basics)

Database Management

MySQL, Snowflake, Elastic, Redis

WORK EXPERIENCE

Snowflake Inc, Oct 2020 - Present — Pune, India

Sr. DevOps Engineer, Platform Engineering (IaC, CI/CD, Configuration Management)
Snowflake provides cloud-based data warehousing and analytics solutions for businesses to manage data.

- Led IT organization to achieve 95% CIS compliance for endpoint security and management automation in SaltStack and osquery across 5500+ macOS, Linux, and Windows devices, and VDIs in the Azure.
- Operationalized endpoint management and security workflows by utilizing CrowdStrike and Tenable products on 5K+ endpoints and 700+ VM resources, resulting in a 50% reduction in security incidents and an overall improvement in endpoint performance.
- Reduced delivery time of software and operating systems updates from 2 weeks to 1 day by implementing CI/CD pipelines in GitHub Actions and AWS services, resulted in more frequent and reliable releases.
- Spearheaded the development of automation workflows to improve team's efficiency by 50%, screened 100+ job applicants for internship and lateral positions and mentored 10+ team members on the team.

NVIDIA Corporation, Nov 2017 - Oct 2020 — Pune, India

Sr. System Software Engineer, Release Engineering (Build & Release, Fullstack)

- Collaborated with Product Engineering teams to establish build and release roadmaps for 10+ products.
- Designed and refined a self-service SaaS web application, "Build-&-Release-as-a-Service," improved the delivery and deployment time by 80% from an average of 3 days to less than 2 hours.
- Built and implemented branching and merging CI/CD pipelines in Jenkins (SoC, GPU) and GitLab (Autonomous Vehicles), drastically cutting release time from 1.5 days to less than 2 hours.
- Advocated for regular monitoring and alerting of Release Engineering infrastructure and services, leading to an 80% reduction in downtime through quicker response times and noiseless alerting.
- Created and maintained 20+ comprehensive documents and wiki pages of the company's build and release processes, increasing transparency and accountability by 50%.

Symantec Corporation, Nov 2013 - Nov 2017 — Pune, India

Software Engineer, Infrastructure Engineering (Automation Frameworks, IaC)

- As a product owner, utilized Agile/Scrum methodology to negotiate sprint goals effectively with the team, resulting in a development and delivery time reduction of over 50% in a single quarter.
- Designed and delivered infrastructure provisioning and deployment automation, reduced the time required to provision and deploy VM images by 90%, resulted in provisioning 50+ VM images on average per week.
- Resolved the shipping issue of the automation framework by creating noarch packages of client software, enabled support for multiple x86/x64 Linux distros (Redhat/Debian-based) and macOS (pkg) platforms.
- Conducted thorough research and analysis to develop effective solutions for the infrastructure automation process, reducing manual efforts and increasing productivity.

LG Corporation, Apr 2013 - Nov 2013 — Bangalore, India

Quality Engineer, Quality Engineering (OSS Compliance & Risk Management)

- Collaborated with internal teams to mitigate open source software (OSS) license compliance issues.
- Helped reduce the business risks and ensure timely, on-budget project completion by developing end-to-end automation that integrated Black Duck Protex for Software Composition Analysis (SCA).
- Automated day-to-day manual tasks via scripting solutions using Python, Shell, and VBA macros, resulting in a 400% increase in daily task completion while reducing potential human errors by 95%.

Wipro Technologies, Mar 2011 - Mar 2013 — Bangalore, India

Software Engineer, Product Engineering (IoT, Embedded Systems)

- Optimized the patient monitoring devices' IPC framework throughput and latency of messages by ~90%.
- Overhauled and decreased the device boot splash screen animation time from 20-25 secs to <3 seconds.
- Researched and performed system profiling on device, achieved code coverage by more than 80%.
- Restructured existing scripts-based build to modern Makefile-based, optimized the build speed ~80%.
- Complete ownership of running static and dynamic code analysis for 100% error-free and compliant code.
- Led the development of automated testing workflows to optimize the overall systems performance by 80%.

Hasmani IT Services, May 2010 - Oct 2010 — Shahada, India

Assistant Engineer, Application Development (Desktop & Web Applications)

- Spearheaded the design, development, testing and deployment of desktop and web applications for local retailers and small/medium businesses, achieving 100% customer satisfaction single handedly.
- Developed ~90% of the company's software and services code in Microsoft .NET framework.

EDUCATION

Bachelor of Science (Computer Science), 2009 — North Maharashtra University, Jalgaon, India

CERTIFICATIONS

AWS Certified Cloud Practitioner — Microsoft Certified: Azure Fundamentals

AWARDS

Shining Star, Wipro — PES (Product Engineering Services) Excellence, Wipro
Best Efforts, LG Corporation — WoW (Winning our Way) Level 3, Symantec