



Madhusudhan

DevOps Engineer | Cloud Infrastructure Specialist

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Professional Summary


Cloud-focused DevOps Engineer with **5+ years** of experience designing and implementing scalable, secure, and automated cloud-native infrastructure. Adept at **CI/CD pipeline orchestration**, **Kubernetes management**, and **Snowflake integration**. Demonstrated success in driving **cost-efficient**, high-performance systems aligned with **engineering excellence and operational rigor**

Technical Skills

- **Languages:** Python, Bash, Golang
 - **DevOps Tools:** GitLab CI/CD, Jenkins, Docker, Helm
 - **Cloud & Infra:** Kubernetes, RHOS, Snowflake, LVMS, cert-manager
 - **Automation:** Ansible, Robot Framework
 - **Version Control:** Git, Gerrit
 - **Other Tools:** Confluence, Bitbucket
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Professional Experience

 **Bottomline – Senior Software Engineer**

 **Jan 2024 – Present**


- Architected a robust **GitLab CI/CD pipeline** for seamless **Snowflake UDTF deployments**, eliminating manual effort and accelerating time-to-delivery.
- Reduced operational overhead by **~\$988K annually** by optimizing data pipeline architecture using **Python** and **Bitbucket-integrated automation**.
- Partnered with **cross-functional teams**, applying principles of **ownership** and **collaboration** to improve system resilience.
- Authored standardized deployment documentation and DevOps runbooks to promote **engineering best practices**. **Tech Stack:** Python, Shell, Snowflake, GitLab CI/CD

Nokia Solutions and Networks – R&D Engineer

 **Nov 2021 – Dec 2023**


- Enhanced infrastructure security on **RHOS clusters** by integrating **cert-manager**, **LVMS**, and **CIS-compliant Ansible scripts**.
- Conducted **performance benchmarking** with **Kube-Burner** to inform scaling decisions across enterprise-grade environments.
- Delivered high-impact infrastructure tooling that contributed to operational consistency and **cost-effective automation**.
- Collaborated in Agile cycles with a strong focus on **continuous improvement** and **system observability**. **Tech Stack**: Kubernetes, Ansible, Helm, Python, Shell, Kube-Burner

Nokia NetAct Project – DevOps & Automation Engineer

 **Feb 2019 – Nov 2021**

- Engineered Python-based automation to support **WebSphere operations**, ensuring uptime and consistent performance.
- Authored robust regression test cases using **Robot Framework** and integrated with CI/CD tooling.
- Contributed to **DevOps transformation** by replacing repetitive processes with automated health checks and alerting mechanisms. **Tech Stack**: Python, Shell, Robot Framework, Golang

Nokia CmRepo Project – Intern

 **Jan 2019 – Jul 2019**

- Developed a **Delta Code Coverage Analysis Tool** in **Golang**, increasing CI feedback loop visibility.
- Supported feature delivery across SDLC phases with emphasis on **code quality**, **testing automation**, and **infrastructure scripting**. **Tech Stack**: Python, Shell, Robot Framework, Golang

Key Achievements

- 💰 **Saved ~\$988K annually** by reducing manual deployment time and cloud resource usage
 - ⚙️ **Accelerated deployment speed** via GitLab CI/CD and modular Snowflake integration
 - 🔄 Introduced **high-availability automation workflows** across hybrid-cloud infrastructure
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Education

- **MCA** – PES University, 2019
 - **BCA** – JSS SMI UG & PG Studies, Dharwad, 2016
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