

# Subha M

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## PROFESSIONAL SUMMARY

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- 3+ years of experience in IT industry, specializing in **DevOps**, Cloud Infrastructure, and Software Configuration Management (**SCM**). Proven expertise in **CI/CD automation**, Infrastructure as Code (**IaC**), and **container orchestration** with **Kubernetes** and **Docker**.
- Strong proficiency in cloud platforms including **AWS**, **Google Cloud Platform (GCP)**, and **Azure**. Hands-on experience with **Terraform**, **Ansible** and **Jenkins** for infrastructure automation, scaling, and management.
- Skilled in **Python**, **Bash**, and **PowerShell** for automation scripting and infrastructure management. Proficiency in **Linux/Unix** and system administration tasks.
- Proficient in using monitoring and logging tools such as **Prometheus**, **Grafana**, and **ELK Stack** to ensure performance and availability.
- Experience with **Helm Charts** for custom software deployments and managing Kubernetes Environments using tools like **k3d** and **kind**.
- Proven expertise in **CI/CD automation**, **Infrastructure as Code (IaC)**, and **container orchestration** with Kubernetes, Docker, and Helm for custom deployments and management.
- Designed and managed **Kubernetes multi-cluster environments** with high availability, **autoscaling**, and service mesh integration for optimized performance and security.
- Implemented **disaster recovery (DR)** solutions for containerized applications in Kubernetes, ensuring failover strategies, automated backups, and minimal downtime during incidents.

## WORK EXPERIENCE

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### AWS DevOps/Cloud Engineer

May 2024 – Present

*Trimble, Dallas, TX, USA*

- Managed **AWS**, **Azure**, and **on-prem** cloud infrastructure using **Terraform**, **Ansible**, **Puppet**, and **Chef**, ensuring consistent and scalable deployments across hybrid environments.
- Automated CI/CD pipelines with **Jenkins**, **GitLab CI/CD**, and **Azure DevOps**, improving reliability and reducing deployment times by 50%; integrated **Coverity**, **Python**, and **Bash** for automation.
- Orchestrated containerized applications with **Kubernetes**, **Docker**, and **Helm Charts**; deployed microservices across **EKS**, **AKS**, and **GKE** ensuring high availability and scalability.
- Created and maintained custom **Helm Charts** for configuration management and streamlined deployment workflows across **Docker Swarm** and Kubernetes clusters.
- Implemented **Kubernetes autoscaling (HPA)**, persistent storage (**PV/PVC**), and optimized networking using **CNI plugins**, **ingress controllers**, and **network policies** for performance and security.
- Developed and tested **disaster recovery (DR)** strategies with **Velero**, including cross-region failover, DR runbooks, and automated backup and restoration for critical workloads.
- Monitored application and infrastructure health using **Prometheus**, **Grafana**, **ELK Stack**, and **Dynatrace**, enabling real-time alerting and proactive system tuning.
- Applied enterprise-grade **security best practices** using **IAM**, **RBAC**, **encryption**, **firewall management**, and **VPN**, ensuring compliance with industry standards.
- Used **Python** (with libraries like **Flask**, **NumPy**) and **SQL** to support custom monitoring scripts and operational tooling; collaborated using **JIRA**, **Confluence**, and **Agile (Scrum)** practices.
- Contributed to operational efficiency by leveraging **Streamlit**, **Power BI**, and **Tableau** for internal dashboards and visualizing Kubernetes performance and DR metrics. Collaborated with cross-functional teams to integrate **AI-driven analysis** into operational workflows, enhancing predictive monitoring and system reliability across Kubernetes environments.
- Utilized **Unix/Linux** systems for day-to-day DevOps tasks, performed advanced scripting in **Go**, **PowerShell**, and **Bash** to automate cluster maintenance, deployments, and system troubleshooting.

## AWS / Cloud Engineer

June 2022 – July 2023

Wells Fargo, India

- Automated infrastructure deployment using **Terraform** and **Ansible** across **AWS** and **Azure cloud** environments, integrating data models and **Python scripting** for infrastructure management.
- Deployed and managed containerized applications with **Kubernetes** and **Docker**, including **Helm** for orchestration and consistency in **OpenShift** and **AKS clusters**.
- Integrated **CI/CD pipelines** using **GitLab CI/CD** and **CircleCI** to streamline build, test, and deployment processes; utilized **Bitbucket** and **Git** for **version control**.
- Managed enterprise cloud infrastructure focusing on scalability, **security (IAM, RBAC)**, and high availability, utilizing **encryption protocols** and **firewall management**.
- Monitored system health using **ELK Stack**, **Prometheus**, and **Grafana** for efficient alerting and performance metrics.
- Created **IaC templates** with **Terraform** and **Ansible**, integrating with **PowerShell** and **Bash** scripts for automation.
- Implemented **Helm** for container orchestration and used **Kubernetes native tools** to maintain **workload efficiency**.
- Developed backup and disaster recovery strategies for **AWS** and **Azure-based apps**, applying best practices from **Agile methodologies**.

## DevOps Engineer

May 2021 – May 2022

AT&T, India

- Performed system backups and recovery operations using **Unix** environments and managed data integrity with **PostgreSQL**, **MongoDB**, **MySQL**, and **Oracle databases**.
- Monitored and optimized **CI/CD pipelines** using **Jenkins** and **Azure DevOps**, ensuring reliability with **Python (NumPy, scikit-learn)** and **Bash** automation.
- Documented infrastructure using **Confluence** and collaborated using **JIRA** under **Agile (Kanban)** workflows for deployment processes.
- Supported application migration to cloud **AWS** environments while preserving minimal disruption and maintaining strong network security like **TCP/IP**, **DNS**, **VPN**.
- Implemented container security best practices with **Kubernetes** and **Docker**, applying **image scanning**, **RBAC**, and network policies.
- Managed database performance and high availability across **Snowflake** and traditional **RDBMS** environments.
- Enhanced software quality through static and dynamic analysis using AI-driven scripts and **integrated testing frameworks**.
- Orchestrated containerized environments using **Kubernetes**, **Docker**, and **Helm**, applying **Git-based DevOps** practices and promoting **CI Integration**.

## SKILLS

**Cloud Platforms:** AWS, Microsoft Azure, Google Cloud Platform (GCP)

**CI/CD Pipelines:** Jenkins, GitLab CI/CD, CircleCI, Azure DevOps

**Infrastructure as Code (IaC):** Terraform, Ansible, Puppet, Chef

**Containerization:** Kubernetes, Docker, Helm, OpenShift, GKE, AKS, Docker Swarm.

**Version Control Systems:** Git, GitHub, GitLab, Bitbucket

**Databases:** PostgreSQL, MongoDB, MySQL, DynamoDB, Oracle, Snowflake

**Programming & Scripting:** Python (Pandas, NumPy, Flask, Pytorch, scikit-learn), SQL, Bash, PowerShell, Go

**Monitoring & Logging:** Prometheus, Nagios, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Splunk, Dynatrace

**Networking & Security:** TCP/IP, DNS, VPN, Firewall Management, IAM, RBAC, Encryption

**Methodologies:** Agile (Scrum, Kanban), DevOps

**Cloud-Native Tools:** Kubernetes, Helm, Docker

**Data Visualization:** Streamlit, Tableau, MS Power BI

**Additional Skills:** Unix, JIRA, Microsoft Excel, Information Technology, Data Models, AI, Data Analysis, Confluence

## EDUCATION

**Master's in Information Technology and Management**, University of Texas at Dallas

May 2025