



# Arun M S

DevOps | Platform Engineering | Cloud Migration Expert

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## CAREER SUMMARY

Experienced DevOps architect with 8+ years of expertise in designing and accomplishing scalable CI/CD pipelines, computerizing infrastructure deployments, and optimizing cloud environments. Proficient in Docker, Kubernetes, AWS, Azure, and adept at driving strategic initiatives to enhance system reliability and team efficiency.



## PROFESSIONAL EXPERIENCE

### Senior DevOps Engineer

*Deriv [Fintech] (Dubai, United Arab Emirates - UAE) [Dec 2023 - Present]*

- **Core member of the Kubernetes team**, responsible for migrating legacy systems to **microservices architecture**.
- Setup and Managed **robust Kubernetes from scratch** across multi-cloud environments (AWS and GCP) and adhering to industry security standards with automated **IAC (Terraform)** via **GitHub workflows** and results in **Slack integration** for notifications.
- Accomplished a **robust monitoring setup** for EKS utilizing **Prometheus**, **AWS CloudWatch**, **FluentBit**, **Grafana** (custom dashboards), and **DataDog** to proactively identify and address potential issues, minimizing downtime and enhancing resource utilization, reducing downtime by **20%** and **improving system reliability**.
- Revamped resource utilization and cost efficiency by implementing **fine-grained autoscaling of EKS worker nodes** leveraging **Karpenter**, resulting in a **30% reduction in cloud infrastructure costs** and a **25% improvement in system performance**.
- Designed **Helm Charts** for scalable deployment of microservices, enhancing deployment consistency and reliability.
- Implemented and managed **Argo CD** for **GitOps** based continuous deployment, streamlining application delivery and reducing deployment time by **40%**. Monitored and resolved issues related to Helm Charts and Argo CD, ensuring **high availability**.
- Developed an automation script for setting up **local Kubernetes clusters** using lightweight tools **K3s** and **Kind**, reducing setup time by **50%** and **improving deployment efficiency by 40%**.
- Gained substantial exposure to **AI and MLOps**, infrastructure setups.

### DevOps Engineer → Senior DevOps Engineer

*Microfocus / OpenText [Software Product] (Bengaluru, Karnataka, India) [Jan 2020 - Dec 2023]*

- Implemented **Agile practices** across development teams, resulting in **30%** increase in productivity and **25%** decrease in project delivery time; adopted iterative development approach to ensure **continuous improvement** and adaptability to client needs.
- Accomplished **Groovy scripts and shared library** setup in Jenkins, optimizing code reusability.
- Proficient in **CI/CD pipeline management (Jenkins, GitLab CI)** and configuration management with Ansible, ensuring smooth system execution and reduced manual intervention by 60%.
- Establishment of **robust Kubernetes cluster** infrastructure, known as "**cifarm**" encompassing **100+ Jenkins instances** to provide comprehensive end-to-end **CI/CD pipelines** using **Jenkins**, integrating with **GitHub**, and enabling streamlined build, deployment, and testing processes, thus resulting in a **50%** reduction in deployment time.
- Developed a **Lambda Python script** to attain a significant **60% cost reduction** in AWS by automating **EC2 power management** for Jenkins CI builds, while also performing industry best practices within the AWS Cloud environment.
- Led Datacentre (DC) migration efforts, **playing a pivotal role** in deploying **AWS** resources through **Terraform / Terragrunt (IAC)** modules, encompassing **VMs, NFS, and databases**.
- Proficiently managed **Amazon Web Services (AWS)**, including **VPC, Networking, EKS, ECS, RDS, S3, EFS, IAM, etc.**
- Facilitated knowledge-sharing sessions, **mentored junior team members** and workshops to enhance the team's understanding of DevOps **best practices**, and automation tools.
- Recognized for providing **critical technical expertise** and guidance during complex problem-solving situations that significantly contributed to the team's overall performance.

### Systems Engineer Trainee → Senior Systems Engineer → Technical Lead

*Cognizant [IT Services] (Coimbatore, Tamil Nadu, India) [Feb 2016 - Jan 2020]*

- Solid experience in installation, configuration, and maintenance of over **2000+ Linux servers (RHEL / OEL / CentOS / Ubuntu)**.
- Ensured **high availability of AWS EC2-based** Production and Development systems.
- Exhibited a deep understanding of **firewalls, VPN, routing, switching, load balancer, and DNS**.
- Developed and maintained **Docker Container-based Applications** at build, deployment, build processes, achieving a 25% reduction in build times and minimizing image sizes for faster deployments.
- Automated configuration management by leveraging **Ansible**, achieving a remarkable **70% reduction in manual tasks**.
- Generated **Change Management/Releases** requests for production environment changes and fixes.
- Managed **Incident, Change, and Capacity management requests**, participating in a **24x7 on-call** rotation for critical production.
- **Created Linux OS Templates (RHEL/CentOS/OEL/Ubuntu)** with **Security Patching** for VMware vSphere cloud deployments. Prepared comprehensive KT documents and delivered regular **Technical KT sessions to teams**.



## EDUCATION

### B.E - Bachelor of Engineering in Electronics & Communication Engineering (ECE) - 2015

- Anna University, Sri Shakthi Institute of Engineering and Technology, Coimbatore, TN, India.



## COMMUNITY CONTRIBUTIONS

- Regular participant on the Stack Overflow Q&A Site - [\[Profile Link\]](#)
- Contributing valuable reviews, and photos to Google Maps, helping users discover and navigate local places - [\[Profile Link\]](#)
- Organized and led a charity event for a non-profit organization, raising funds for a cause.



## AWARDS & ACHIEVEMENTS

- Single-handedly executed Jenkins migration for multiple projects, completing the task ahead of schedule, which garnered appreciation from the **VP (2021 - 2022)**.
- My Individual Contribution through Automation effectively saved around **\$26,145** for US Client (2018).
- Achieved the **"BEST NEWCOMER"** Award at Cognizant and earned recognition as the **"BEST ASSOCIATE"** in the entire DCS Operations for **two consecutive years** in 2018 and 2019.

## PROGRAMMING SKILLS

- Bash / Shell Scripting [Advance]
- Python [Intermediate]
- Go [Basics]

## CLOUD MANAGEMENT

- Amazon Web Services (AWS) [Advance]
- Microsoft Azure (AZ) [Intermediate]
- Google Cloud (GCP) [Basics]

## DEVOPS TOOLS

- Docker [Advance]
- Kubernetes / AWS EKS [Advance]
- GitHub [Advance]
- Jenkins CI/CD [Advance]
- Terraform / Terragrunt [Advance]
- Helm [Advance]
- Ansible [Intermediate]
- Nginx [Intermediate]
- Maven Builds [Intermediate]
- JFrog Artifactory [Intermediate]
- Argo CD [Intermediate]

## MONITORING TOOLS

- Grafana [Intermediate]
- Prometheus / Loki [Intermediate]
- AWS CloudWatch [Intermediate]

## OS / VIRTUALIZATION

- Linux OS (RHEL, Ubuntu, Centos, Rocky) [Advance]
- Windows [Advance]
- VMware [Intermediate]

## NETWORKING

- OSI TCP/IP, Subnetting, DNS, Load Balancer, CDN.
- TCP Dump, Wireshark.

## DATABASE

- PostgreSQL [Intermediate]
- Oracle DB [Basics]
- MongoDB [Basics]

## KEY AUTOMATIONS

- PII data masking in Fluent-bit Tool.
- Setup end-to-end Observability Pipeline.
- AWS EC2 Power Automation Tool.
- AWS SSM - EC2 End to End OS Patch Tool.
- Developed various Terraform generic modules.
- Versioning, Packaging of builds for CI/CD Jenkins.
- GitHub Pre-hooks - Commit Message Validation.
- All-in-One DevOps Build Tools - Docker Container.
- AWS Autoscaling (ASG) for Bastion Hosts.
- Ansible Automation as Dynamic Build Pod with multi-region support to Patch Linux VMs.
- Fully Automated Multi-OS Linux Patching Script.
- AD Integration with windows for Linux OS.

## CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- Microsoft Certified: Azure Fundamentals (AZ 900)
- AWS Solutions Architect Associate (SAA-C01)

## AREA OF INTEREST

- DevSecOps
- AI and MLOps
- Platform Engineering
- Internet of Things (IoT)
- Technical Mentoring