



Arun M S

DevOps | Platform Engineering | Cloud Migration Expert

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CAREER SUMMARY

Experienced DevOps architect with 9+ years of expertise in designing and implementing scalable CI/CD pipelines, automating 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** notifications.
- Implemented 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 optimizing resource utilization, reducing downtime by **20% and improving system reliability**.
- Achieved optimized resource utilization and cost efficiency by implementing **fine-grained autoscaling of EKS worker nodes** using **Karpenter**, resulting in a **30% reduction in cloud infrastructure costs** and a **25% improvement in system performance**
- 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%**.
- **Mentored** colleagues / junior engineers, providing guidance to enhance their technical skills and professional growth.
- 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.
- Led the successful 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 achieve a significant **60% cost reduction** in AWS by automating **EC2 power management** for Jenkins CI builds, while also implementing 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.**
- Exhibited a deep understanding of **firewalls, VPN, routing, switching, load balancer, and DNS**.
- Utilized **strong analytical and critical thinking skills** to predict and resolve application system issues at their root cause.
- 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]

- Ensured **high availability of AWS EC2-based** Production and Development systems.
- Implemented **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%.
- Automated infrastructure provisioning and management using **Ansible**, achieving a remarkable **70% reduction in manual tasks**.
- Generated **Change Management** requests for production environment changes and fixes.
- Analysed and implemented **robust security practices for Container-based Applications** at build, deployment, and runtime stages, leveraging various tools.
- Solid experience in installation, configuration, and maintenance of over **2000+ Linux servers (RHEL / OEL / CentOS / Ubuntu)**.
- 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.
- 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