

K Subramanyeshwara

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Summary

Aspiring DevOps Engineer with hands-on experience in Linux system administration, cloud infrastructure (AWS), container technologies (Docker, Kubernetes), CI/CD pipeline automation, and Infrastructure as Code (Terraform). Skilled in building scalable deployment pipelines, automating infrastructure provisioning, and applying security best practices including IAM and MFA.

Quick learner with hands-on project experience, eager to contribute to automation and reliable deployment pipelines in a collaborative engineering environment. Open to 24/7 shift rotations and global time zones.

Skills

Operating System and Networking Fundamentals : Linux (User management, File management & Permission, Process management, Service management.) Windows OS, TCP/IP, DNS, HTTP/HTTPS, Subnetting/CIDR, NAT, Firewalls and Security Groups.

Version Control : Git and GitHub.

Cloud and Infrastructure : AWS (IAM, EC2, S3, VPC, CloudFront, ALB, Auto Scaling, Security Groups, NAT Gateway), Terraform (Infrastructure as Code)

Containerization and CI/Cd: Docker, Kubernetes, GitHub Actions, Jenkins.

Monitoring & Troubleshooting: CloudWatch basics, log analysis, root-cause analysis, system health checks.

Scripting and Languages: Shell, Python, HTML, CSS, JavaScript.

Testing & Debugging: Manual Testing, API Testing with Postman, Debugging using Browser Developer Tools.

Soft Skills: Strong written and verbal communication, Attention to Detail, Adaptability, flexibility, Collaboration with Cross-functional teams.

Projects

Highly Available Multi-Tier AWS VPC Architecture | [GitHub](#)

- Designed and deployed a highly available AWS VPC architecture across multiple Availability Zones to ensure continuous enterprise operations.
- Applied networking fundamentals to design public and private subnets, integrating internet and NAT gateways for controlled outbound access and secure TCP/IP routing.
- Performed system configurations to ensure infrastructure resources adhered to compliance and access control guidelines.
- Technologies Used: AWS VPC, EC2, ALB, Auto Scaling, Internet Gateway, NAT Gateway, Security Group.

Node.js CI/CD Pipeline with Docker and GitHub Actions | [GitHub](#)

- Containerized Node.js Express application using Docker with optimized builds and .dockerignore for efficient image creation.
- Designed and implemented a multi-job GitHub Actions CI/CD pipeline that runs automated unit tests (Mocha), builds Docker images with Buildx, and pushes versioned images (latest + commit SHA) to Docker Hub on every push to the main branch.
- Configured secure authentication to Docker Hub using GitHub repository variables and secrets (DOCKER_USERNAME, DOCKER_PASSWORD) following security best practices.
- Technologies Used: Node.js, Express, Docker, GitHub Actions, Docker Hub, Mocha, Docker Buildx, GitHub Secrets & Variables.

Static Website Hosting using Nginx Container | [GitHub](#)

- Containerized and deployed a static website using Docker and Nginx on AWS EC2, enabling portable and production-style web hosting through containerized infrastructure.
- Configured and managed web server deployment in a Linux environment.
- Performed deployment validation, troubleshooting, and service verification.
- Technologies Used: AWS EC2, Docker, Nginx.

Education

BMS Institute of Technology and Management

2020 – 2023

Bachelor of Engineering in Computer Science

JSS Polytechnic, Nanjangud

2016 – 2019

Diploma in Computer Science and Engineering