

SUCHITHA MOTHKURI

DevOps Engineer | AWS | CI/CD | Docker & Kubernetes | Terraform

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PROFESSIONAL SUMMARY

B.Tech graduate and aspiring DevOps Engineer with strong, hands-on knowledge of Amazon Web Services and a working understanding of Azure and Google Cloud. Skilled in building CI/CD pipelines, containerising applications with Docker and Kubernetes, and provisioning infrastructure as code using Terraform and Ansible. Following graduation I took a planned break for personal reasons and used that period to build practical DevOps capability through self-directed lab projects on real cloud accounts. Now seeking an entry-level DevOps / Cloud Engineer role where I can contribute to automation, deployment and reliability work.

TECHNICAL SKILLS

Cloud (AWS - primary): EC2, VPC, Subnets, Security Groups, IAM, S3, EBS, ELB / ALB, Auto Scaling, Route 53, RDS, CloudWatch, CloudTrail, SNS, Lambda, ECR, EKS, Systems Manager, Cost Explorer

Other Clouds: Microsoft Azure (Virtual Machines, Blob Storage, Azure DevOps Pipelines, AKS - basics); Google Cloud Platform (Compute Engine, Cloud Storage, GKE - basics)

CI / CD: Jenkins (freestyle & declarative pipelines), GitHub Actions, AWS CodeBuild / CodeDeploy / CodePipeline

Containers & Orchestration: Docker, Dockerfile optimisation, Docker Compose, Docker Hub / ECR, Kubernetes (Deployments, Services, Ingress, ConfigMaps, Secrets, HPA), Helm (basics)

Infrastructure as Code: Terraform (modules, remote state, workspaces), AWS CloudFormation, Ansible (playbooks, roles, inventories)

Monitoring & Logging: Prometheus, Grafana, Amazon CloudWatch Logs & Alarms, ELK stack (basics)

Scripting & Programming: Shell / Bash, Python (boto3), YAML, JSON, Groovy (basics), Java (academic), Pega (trained)

Version Control & Build: Git, GitHub, GitLab, branching & merge strategies, Maven, SonarQube, Nexus (basics)

Operating Systems & Networking: Linux administration (Ubuntu, Amazon Linux, RHEL/CentOS), user & permission management, systemd, cron, DNS, TCP/IP, SSH, load balancing, firewall rules

Working Practices: Agile / Scrum, Jira, Confluence, incident triage, documentation, cost optimisation

DEVOPS PROJECTS (SELF-DIRECTED / LAB)

1. End-to-End CI/CD Pipeline for a Java Web Application | *Jenkins, Maven, SonarQube, Docker, Ansible, AWS EC2*

- Built a declarative Jenkins pipeline that pulls source from GitHub on every commit, compiles with Maven, runs unit tests, and publishes the build artifact.
- Integrated SonarQube for static code analysis and configured a quality gate that fails the build on critical issues.
- Packaged the application as a Docker image, pushed it to Amazon ECR, and deployed it to an EC2 instance using an Ansible playbook.
- Reduced a manual build-and-deploy routine of roughly 30 minutes to a single automated run of under 5 minutes.

2. Highly Available Three-Tier Architecture on AWS using Terraform | *Terraform, AWS VPC, ALB, Auto Scaling, RDS, S3*

- Provisioned a complete three-tier environment as code: custom VPC with public and private subnets across two Availability Zones, NAT Gateway, route tables and security groups.
- Deployed web servers behind an Application Load Balancer inside an Auto Scaling group, with an Amazon RDS (MySQL) Multi-AZ instance in the private tier.
- Wrote reusable Terraform modules and stored remote state in S3 with DynamoDB state locking to support safe, repeatable deployments.
- Applied least-privilege IAM roles and instance profiles instead of hard-coded credentials.

3. Microservices Deployment on Amazon EKS | *Docker, Kubernetes, EKS, Helm, GitHub Actions*

- Containerised a multi-service application and deployed it to an Amazon EKS cluster using Deployments, Services, Ingress, ConfigMaps and Secrets.
- Configured Horizontal Pod Autoscaling and resource requests/limits to handle variable load, and validated behaviour with load tests.
- Automated build-and-release with a GitHub Actions workflow that builds images, pushes to ECR and performs a rolling update with automatic rollback on failure.

- Packaged environment-specific configuration using Helm charts for dev and staging.

4. Monitoring, Logging and Alerting Stack | *Prometheus, Grafana, CloudWatch, SNS, ELK*

- Set up Prometheus with Node Exporter to collect infrastructure and container metrics, and built Grafana dashboards for CPU, memory, disk and pod health.
- Configured CloudWatch alarms and SNS email notifications for CPU thresholds, failed health checks and unusual billing activity.
- Centralised application logs using the ELK stack to speed up root-cause analysis during failure simulations.

5. Multi-Cloud Storage & Cloud Cost Automation | *Python (boto3), AWS S3, Azure Blob Storage, Google Cloud Storage*

- Wrote Python and Bash automation to back up application data to Amazon S3 with lifecycle rules, and replicated the same workflow to Azure Blob Storage and Google Cloud Storage to compare services.
- Automated a weekly AWS cost and idle-resource report using boto3 and Cost Explorer, identifying unattached EBS volumes and stopped instances for cleanup.
- Scheduled the jobs with cron and Lambda, with failure alerts delivered through SNS.

CAREER BREAK & CONTINUOUS LEARNING

Planned Career Break — 2021 to 2026

- Stepped away from full-time employment after graduation for personal and family reasons.
- Used the period to move from an academic background into DevOps through structured self-study and hands-on practice on live AWS, Azure and GCP accounts.
- Publish project code, Terraform configurations and pipeline definitions on GitHub at github.com/Suchitha123.

EDUCATION

B.Tech — Bhoj Reddy Engineering College for Women, Hyderabad — 2021 — 65%

Intermediate — SR Junior College, Nizamabad — 2017 — 88.4%

SSC — ZPHS Yanampalli, Nizamabad — 2015 — 8.3 GPA

CERTIFICATIONS & WORKSHOPS

- AWS Certified Solutions Architect – Associate — currently preparing
- Certificate of Workshop on Solar Panels
- Certificate of Workshop on Advanced Protection Systems of 132/33 KV Substation

ACADEMIC PROJECTS

- Sensorless DC-link control approach for a three-phase grid-integrated PV system.
- Modelling of HVDC tie-links and their utilisation in AGC / LFC operations of multi-area power systems.

STRENGTHS

Hardworking and dedicated • Strong team player • Quick and self-driven learner • Clear communicator • Confident under pressure

PERSONAL DETAILS

Father's Name: Thirumalesh Goud

Date of Birth: 30 April 2000

Languages Known: English, Telugu, Hindi

Interests: Drawing, cloud technology communities

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DECLARATION

I hereby declare that all the information mentioned above is true and correct to the best of my knowledge.

(SUCHITHA MOTHKURI)