DEEPAN NARAYANAMOORTHY

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Software Engineer - DevOps / Cloud Infra (AWS, Azure); Production-focused, with **3+ years** of experience owning **IaC** (Terraform, CloudFormation/ARM), **CI/CD** (GitHub Actions, Azure DevOps); holds **AWS Solutions Architect – Associate**. Focused on observability (Datadog, CloudWatch, Azure Monitor), and secure delivery (OIDC/IAM, least privilege, and automation).

EXPERIENCE

EVERSTAGE **Software Engineer - Cloud and DevOps** *Nov 2025 – Present, Coimbatore, India*

- **Architected** multi-account, multi-region **Terraform** modules to deliver isolated, production-like AWS environments for safe releases and customer demos, with consistent networking (**VPC**, **NLB**, **Security Groups**) and service topology across stacks.
- **Migrated** the data plane across **RDS** (**AWS DMS**), **Supabase**, **Typesense**, **Auth0** (tenant/app replication), **Snowflake** (S3 integration), and **EFS** (**AWS DataSync**), keeping demo and release paths aligned with the production environment.
- **Owned** production **ECS/Fargate** deployments, **autoscaling**, and orchestration at scale; led incident **triage** and cut release-related downtime by **2 hours** via improved alerting and debugging workflows.
- **Implemented Datadog** synthetics and **SLI**-aligned monitors, alerts, and workflows to support **on-call** triage; reduced **alert noise** via routing/tuning; integrated **Atlassian Statuspage** with **Datadog** for customer-visible component status during incidents.
- **Led** an **organization-wide CI/CD** security modernization, replacing long-lived AWS access keys with **GitHub OIDC** and **IAM** role assumption across repositories, eliminating static cloud credentials.
- **Standardized GitHub Actions CI/CD** workflows with automated schema migrations and idempotent deployments, reducing recurring pipeline failures and improving deployment reliability.

CATERPILLAR INC. **Software Engineer - Cloud and DevOps** *Feb 2023 – Oct 2025, Chennai, India*

- **Provisioned** and **standardized** infrastructure for **30+ microservices** on **AWS** (**ECS/Fargate**, RDS, Lambda) and **Azure** (Functions, App Service) using **AWS CloudFormation** and **Azure ARM** templates, establishing multi-cloud **IaC** standards; **designed autoscaling** templates and strategies for **AWS Fargate** and **Azure App Service**, cutting **incidents** by **20%**.
- **Delivered** a repeatable **S3 + CloudFront + Lambda@Edge** pattern for static UIs across services, improving global delivery performance and simplifying multi-service releases.
- **Owned** release execution for downtime-sensitive changes using **blue-green deployments** and tested **rollback strategies** (**10+** cases); coordinated with stakeholders on downtime impact and **postmortem/RCA**, improving reliability.
- **Developed** internal tools for **Key Vault alerts**, **IP compliance checks**, **post-production sanity checks**, and **incident reporting**, resolving **50+ vulnerabilities** and reducing manual effort by **10–15 hours** per iteration.
- **Automated** migration of standalone **CloudWatch** log groups into **Lambda** stacks via pipelines and utilities supporting parallel deployment and trigger optimization, saving developers **1 hour** per deployment.
- **Led 3** Azure and **Azure-to-AWS** migrations; cut monthly cloud spend ∼**12%** via rightsizing and teardown.
- **Implemented** monitoring solutions with **CloudWatch** and **Azure Monitor**, reducing incident response time by **30 minutes**.
- **Built CI/CD** pipelines in **Azure DevOps** for 20+ services, cutting lead time and increasing release frequency.

JPMORGAN CHASE & CO. **Junior Analyst Intern** *May 2021 – Nov 2021, Mumbai, India*

- **Automated** pitch deck workflows (**Python**, **VBA**, **Selenium**), saving **1000+** hours per year; built **Python** geospatial utilities (**QGIS** plugin work) for oil-rig proximity analysis.

SKILLS

Amazon Web Services:	ECS/Fargate, Lambda, CloudFront, VPC, NLB, Security Groups, S3, RDS, EFS, Secrets Manager
Microsoft Azure:	App Service, Functions, Key Vault, Storage Accounts
IaC & Config:	Terraform, AWS CloudFormation, Azure Resource Manager (ARM)
CI/CD & Containers:	Docker, GitHub Actions, Azure DevOps
Observability & Ops:	Datadog, Statuspage, AWS CloudWatch, Azure Monitor & App Insights, SLO/SLI, On-Call, RCA
Security & Identity:	GitHub OIDC, AWS IAM, Azure RBAC, Auth0, SonarQube, JFrog
Scripting & Languages:	Python, Bash, Linux, PowerShell, YAML, SQL
Data Systems:	PostgreSQL, Snowflake, Supabase, Typesense

EDUCATION

M.Sc. Theoretical Computer Science, PSG College of Technology — May 2023
Coimbatore, India — GPA: 8.0/10