# KAVAN RAJ K P

AWS DevOps Engineer

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## SUMMARY

AWS DevOps Engineer with 4+ years of experience at Tata Consultancy Services (TCS), including 3 years in cloud-native DevOps and 1 year in FTTP planning. Proven expertise in designing scalable AWS infrastructure, automating CI/CD pipelines, and optimizing system performance. Adept in EC2, S3, RDS, Docker, Jenkins, and Kubernetes. Recognized for driving deployment efficiency, cost optimization, and cross-functional collaboration. Certified in AWS Solutions Architecture and DevOps. Passionate about building resilient systems and streamlining delivery pipelines.

## EDUCATION

**Bachelor of Engineering (B.E.)**

Government Engineering College, Kushalnagar
 VTU, Karnataka
Electronics and Communication (7.2 CGPA)
 2017 – 2021

## TECHNICAL SKILLS

- **Cloud & Infrastructure:**
AWS (EC2, S3, RDS, DynamoDB, IAM, VPC, Route 53, CloudWatch, Lambda), Terraform, CloudFormation
- **CI/CD & DevOps Tools:**
 Jenkins, Git, GitHub Actions, AWS Code Pipeline, Code Build, Code Deploy
Containers & Orchestration:
 Docker, Kubernetes (basic)
- **Scripting & Automation:**
 Shell Scripting, Groovy, cron jobs, user data scripts
- **Monitoring & Logging:**
 CloudWatch, Grafana (basic), log rotation, alerting
- **Networking & Security:**
 VPC setup, NAT gateways, route tables, security groups, DNS (Route 53)
- **OS & Platforms:**
 Linux (Ubuntu, Amazon Linux), Apache/Nginx
- **Others:**
 Excel (advanced formulas, VBA), ArcGIS, static site hosting on S3.

## PROFESSIONAL EXPERIENCE

### AWS DevOps Engineer

- Provisioned and managed AWS services including EC2, S3, RDS, DynamoDB, IAM, and VPC for scalable infrastructure.
- Designed and implemented CI/CD pipelines using Jenkins and AWS Code Pipeline for automated build, test, and deployment.
- Created and maintained Jenkins files using Groovy to define multi-stage pipelines with rollback and notification mechanisms.
- Deployed containerized applications using Docker and orchestrated them with Kubernetes on EC2 instances.
- Configured Route 53 for DNS management and domain routing across multiple environments.
- Automated infrastructure provisioning using CloudFormation and shell scripts for repeatable deployments.
- Monitored system performance using CloudWatch, set up alarms, and optimized resource utilization.
- Implemented log rotation, backup automation, and cleanup tasks using shell scripting and cron jobs.
- Managed secure networking with public/private subnets, NAT gateways, and security groups inside custom VPCs.
- Hosted static websites and certificate displays using HTML and AWS S3 with custom bucket policies.
- Collaborated with cross-functional teams to troubleshoot deployment issues and improve release velocity.
- Participated in cost optimization by rightsizing EC2 instances and implementing lifecycle policies for S3.

### FTTP Planner

Tata Consultancy Services (TCS) | 2022 - 2023

- Planned and forecasted FTTP (Fiber to the Premises) rollout schedules.
- Analyzed throughput data to optimize delivery timelines.
- Coordinated with cross-functional teams to align planning with execution.
- Created Excel dashboards for performance tracking and reporting.
- Supported GIS mapping and address validation for accurate fiber coverage planning.

# PROJECTS

**3-Tier Web Application Hosting on AWS**

Tools: EC2, RDS, S3, VPC, Route 53, Shell Scripting

Duration: September 2025

- Architected a 3-tier web app with frontend (EC2 + Apache), backend (EC2), and database (RDS)
- Configured VPC with public/private subnets, NAT gateways, and security groups
- Automated provisioning using shell scripts and user data
- Enabled monitoring via CloudWatch and implemented multi-AZ for high availability
- Used Route 53 for DNS routing and hosted static content on S3

**CI/CD Pipeline Automation for Web Application**

Tools: Jenkins, Git, Docker, AWS EC2, S3, Code Pipeline
Duration: November 2025

- Developed CI/CD pipeline with Jenkins and Groovy-based Jenkins file
- Integrated Git for version control and Docker for containerization
- Automated build, test, and deployment stages with rollback and alerting
- Stored artifacts in S3 and monitored pipeline health with CloudWatch
- Reduced deployment time by 60% and improved release reliability

# AWARDS & ACHIEVEMENTS

- **Service & Commitment Award** – TCS (Feb 2025) - Honored for completing 3 years of dedicated service at Tata Consultancy Services, recognizing consistent performance and long-term contribution.
- **Star of the Month Award** – TCS (Mar, Jul, Oct 2024; May, Sep 2025) - Received multiple times in recognition of outstanding contributions, dedication, and inspiring leadership across various projects. Celebrated for consistently exceeding expectations and being a role model to peers.
- **Certificate of Appreciation** – TCS (Jan 2024) - Recognized for exceptional energy and enthusiasm, setting a benchmark for workplace positivity and team spirit.
- **Certificate of Appreciation** – TCS (Jul 2024) - Acknowledged for outstanding teamwork and support in achieving key project milestones.
- **CSR Appreciation** – TCS CMI Community Connect (May 2025) - Commended for active participation and impactful contributions to corporate social responsibility initiatives, demonstrating commitment to community engagement.

# CERTIFICATIONS

- **AWS Solutions Architect** – Micro Degree Skilling Institute (2025)
- **DevOps Engineer** – Micro Degree Skilling Institute (2025)
- **Generative AI** – TCS (2025)
- **Advanced Excel** – TCS (2023)