AJAY KUMAR MANNAM

DevOps Engineer

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SUMMARY

Enthusiastic DevOps engineer specializing in automation, distributed systems, and cloud infrastructure. Skilled in optimizing CI/CD pipelines and deploying Infrastructure as Code (IaC) solutions with tools like Jenkins, Docker, and Terraform. Strong focus on system monitoring, application support, quality assurance, and security practices to ensure scalable, reliable deployments. Proficient with cloud service integration and committed to continuous learning and team collaboration, driving innovation and efficiency in cloud and automation practices.

EDUCATION

University of South Dakota, Vermillion, SD **August 2023 - May 2025**

Master's in Computer Science, GPA: 3.7

Artificial Intelligence, Machine Learning, Internet of Things, Operating Systems and Architecture

TECHNICAL SKILLS

Scripting: Python, Bash, PowerShell.

Automation & CI/CD Tools: Jenkins, GitHub Actions, Ansible, Terraform, Puppet.

Containerization & Orchestration: Docker, Kubernetes, AWS Fargate.

Cloud & OS: AWS, RHEL, Ubuntu.

Monitoring & System Health: Prometheus, Grafana, Dynatrace, AWS CloudWatch

Version Control Systems: Git, GitHub.

RELEVANT EXPERIENCE

Linux System Administrator

Capgemini, Bangalore, India **May 2021 - Jul 2023**

- Automated cloud infrastructure tasks using Python and shell scripts, **achieving a 25% boost in operational efficiency.**
- Enhanced server security with monthly security patches, **decreasing vulnerability incidents by 20%.**
- Provided application support by **documenting system configurations to ensure 100% compliance** with infrastructure documentation standards.
- Monitored system health and optimized performance using Dynatrace, **resolving critical issues and reducing downtime by 15%**.

PERSONAL PROJECTS

End-to-End CI/CD Implementation: **Jun 2024**

Tools used – Jenkins, Docker, Git, Argo CD GitHub

- Developed an automated CI/CD pipeline for Java applications**, reducing deployment time by 50%** and improving integration efficiency.

Monitoring Dashboard AWS CloudWatch: **Aug 2024**

Tools used – AWS CloudWatch, Lambda GitHub

- Deployed CloudWatch to monitor AWS resources and application metrics, **enhancing observability by 35% and enabling faster troubleshooting**.

End-to-End project on EKS: — EKS Install, and app deploy with Ingress — **Sep 2024**

Tools used – Amazon EKS, AWS Fargate, Docker, Ingress Controller GitHub

- Optimized traffic routing for a real-time application on Amazon EKS, **leading to a 30% improvement in network efficiency**.

Terraform with AWS: **Sep 2024**

Tools used – AWS, Terraform, CloudFront, Git GitHub

- Built AWS infrastructure with Terraform, **reducing manual errors by 70% and accelerating provisioning times** through automated configurations.
- Ensured secure configurations by managing sensitive values with environment variables.

CERTIFICATIONS

- Programming for Everybody (Python) — University of Michigan
- Cloud Computing Basics — Coursera