N Shashi Kumar

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OBJECTIVE

Motivated and detail-oriented fresher aspiring to start a career as a DevOps Engineer. Eager to apply foundational knowledge of CI/CD, cloud platforms, Linux, and scripting to support efficient software delivery. Passionate about learning modern DevOps tools and practices to help teams build, deploy, and scale applications reliably

EDUCATION

Avanthi Institute of Engineering and Technology **Hyderabad**

Bachelors in Computer Science Engineering – Data Science SEP 2021 – 2025

- **Relevant Coursework:** Software Engineering **,** Machine Learning , Computer Networks , Database Management Systems , Cloud Computing, Data Mining .

EXPEREINCE

DevOps Intern Sep 2025 – Dec 2025

Trav **Remote, India**

- Created reusable GitHub Actions workflow templates for Python microservices, enabling faster CI/CD setup, standardization, and easy inheritance across multiple services.
- Researched and estimated cloud costs across Azure and AWS, comparing service pricing and scaling strategies to design a cost-efficient and scalable cloud architecture for the frontend application.
- Defined ECS task definitions and configured AWS networking components, IAM roles, and supporting cloud services to deploy the application in a secure production-ready environment.
- Developed Custom cloud watch dashboards implementing **2x predictive** monitoring and observability of AWS ECS services and Troubleshooted production errors
- Managed and optimized infrastructure for a production application receiving **11k–12k daily requests**, ensuring stable performance and zero downtime during peak hours.
- Implemented strict branch protection and strategy rules like trunk based development and made concrete SDLC for application CICD

Junior DevOps Engineer – Contract Feb 2025 – July 2025

Vtex.AI **Remote, India**

• Developed robust automated testing pipelines using GitHub Actions, integrating SAST (Static Application Security Testing), UAT (User Acceptance Testing), and regression testing to maintain high code quality throughout the CI/CD process.
• Implemented Canary deployments with automated rollback mechanisms, ensuring zero-downtime releases and enabling safe, progressive feature rollouts using version tagging.
• Streamlined automated GitHub releases and semantic versioning across a multi-repository

architecture, improving deployment traceability and collaboration.
• Designed and implemented a production-ready CI/CD pipeline using Jenkins to automate the build and deployment of a Python-based application on AWS ECS, reducing manual effort by over 90%.
• Built a fully containerized architecture with Docker and Amazon ECR, optimizing image size and ensuring consistent deployment across environments.
• Provisioned cloud infrastructure using Terraform, automating tasks such as ECS cluster setup, IAM role creation, networking, and CloudWatch log configuration—following Infrastructure as Code (IaC) best practices.
• Integrated CloudWatch Logs and ECS service monitoring, enhancing system observability and reducing issue resolution time by 70%.
• Achieved an 80% reduction in deployment time while maintaining zero downtime, significantly improving the release process and user experience.

Kitikiplot March 2025

- Kitikiplot is a python open source library with more than 6K+ Installations and Recognized by FOSS
- Developed Python Unit test cases using Pytest Ensuring Code Quality
- Implemented a Automated Github Actions Pipelines for Automated Tests

PROJECTS

Finch SEP 2025

- Built an end-to-end CI/CD pipeline from source code to production deployment, implementing Docker multi-stage builds, image registry workflows, unit testing, Kubernetes deployments, and automatic scaling using HPA.

- Established a secure RDS connection using Cloud SQL Auth Proxy, enabling encrypted communication between GKE workloads and the database.
- Implemented observability using Prometheus and Grafana with custom alerts to track cluster health, performance, and application behavior.

- Successfully predicted potential production failures and proactively resolved issues using monitoring insights, improving system stability and reliability.

TECHNICAL SKILLS

- **Languages**: Python,C++,js
- **Operating Systems**: Linux,Windows
- **Cloud Platforms**: AWS,AZURE
- **CI/CD Tools**: Jenkins, Github Actions
- **Container Orchestration**: Docker , Kubernetes
- **IAC**: Terraform