

Devaprasad S

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Summary

Software Engineer with 2+ years of experience in Linux infrastructure, production debugging, automation, and cloud environments. Hands-on with Python, Bash, Docker, Kubernetes, FastAPI, and AI/LLMOps projects involving RAG, containerized inference, and Kubernetes automation.

Education

Carmel College Of Engineering and Technology (KTU)

Bachelor of Technology in Computer Science and Engineering

Alappuzha, Kerala

July 2020 – Aug 2024

Experience

Software Engineer (L3 Server Administrator)

August 2024 – Present

Bobcares/Poornam Info Vision

Kochi, Kerala, India

- Managed cloud infrastructure across AWS, Azure, GCP, and OCI, supporting Docker containers and Kubernetes workloads.
- Automated Linux administration, provisioning, and operational workflows using Jenkins, Ansible, and Bash, reducing manual effort by 8 to 12 hours per week.
- Performed root cause analysis (RCA) and resolved production incidents involving Nginx, Apache, LiteSpeed, databases, and other infrastructure components, prioritizing recovery based on incident severity and business impact.
- Managed 150+ cloud servers across multiple client environments, performing security updates, kernel maintenance, and performance tuning while minimizing service disruption.
- Investigated and optimized system and database performance to improve server responsiveness and resource utilization.
- Executed minimal-downtime migrations covering web applications, DNS, and mail infrastructure.

Projects

OCI LLMOps Platform | *OCI, Terraform, Jenkins, Docker, Kubernetes, Linux*

- Built a cost-optimized OCI LLMOps infrastructure using Terraform and OCI Instance Principals for credential-less infrastructure provisioning.
- Designed a multi-node architecture for CI/CD, Kubernetes orchestration, and AI workloads within OCI Always Free resource constraints.
- Tuned Linux swap and virtual memory parameters on constrained compute to improve reliability of Jenkins and AI workloads.

K8s Manifest Doctor API | *FastAPI, Kubernetes, Docker, K3s, Ollama, ChromaDB*

- Built a FastAPI-based RAG service using Hugging Face embeddings, ChromaDB, and Ollama to analyze Kubernetes manifests.
- Built multi-architecture ARM64/x86 images using Docker Buildx and QEMU and deployed the application to a K3s cluster.

Azure Disaster Recovery Framework | *Azure, VPN, Defender for Cloud, DR*

- Implemented an active-passive disaster recovery architecture across Azure regions to improve application resilience and business continuity.
- Implemented site-to-site VPN connectivity and network failover architecture for secure communication between environments.
- Integrated Microsoft Defender for Cloud security controls into the DR architecture for infrastructure protection and monitoring.

Technical Skills

Cloud & IaC: AWS (EC2, S3, IAM, Route 53, CloudWatch, ELB), OCI (Compute, VCN, Block Volumes, IAM), Azure (Virtual Machines, VNETs, VPN Gateway, Defender for Cloud), GCP (Compute Engine, VPC, Cloud Storage, IAM), Terraform

Containers & CI/CD: Kubernetes, K3s, Docker, Docker Buildx, Jenkins, GitHub Actions

Linux & Infrastructure: Linux, Windows Server, cPanel, Plesk, CloudLinux, KVM, LVM, Systemd, Nginx, Apache, LiteSpeed

Networking & Security: TCP/IP, DNS, SSL/TLS, Cloudflare, VPN, iptables, CSF, Imunify360

Programming & Data: Python, Bash, SQL, FastAPI, Flask, MySQL, MariaDB, PostgreSQL

AI/LLMOps: RAG, ChromaDB, Ollama, LangChain, Hugging Face