BALAJI R

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Professional Summary

DevOps Engineer experienced in managing **200+ servers and services**, cloud infrastructure, CI/CD, Docker, Kubernetes, monitoring, security, and automation. Work remotely on the product environment of **GNB Tech Software Solutions** through Aboss Technologies and Neorains Technologies. Experienced in building secure and isolated environments, browser-based developer workspaces using Code Server, infrastructure cost optimization, server migrations, and open-source solutions.

Technical Skills

- **DevOps:** Docker, Docker Compose, Kubernetes, GitHub Actions, Jenkins, Ansible, Terraform
- **Cloud:** AWS, GCP, DigitalOcean, Linode, Cloudflare, Vercel, Proxmox
- **Monitoring:** Prometheus, Grafana, Node Exporter, cAdvisor, Alertmanager
- **Programming:** Python, Bash, Shell Scripting, JavaScript, Node.js
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase / Firestore
- **Networking:** Linux, SSH, Nginx, Apache, DNS, SSL/TLS, VPN, UFW
- **Security:** Fail2Ban, Server Hardening, Firewall Configuration, Access Control, Network Isolation
- **Developer Environment:** Code Server, Browser-Based IDEs, Remote Workspaces, Workspace Access Management, AI Development Tools
- **Specialization:** Infrastructure Cost Optimization, Open-Source Solutions, Server Migration, Automation

Professional Experience

DevOps Engineer **Apr 2025 – Present**

Aboss Technologies / Neorains Technologies, Madurai

Client / Product Environment: GNB Tech Software Solutions

- Remotely manage and maintain **200+ production servers and services** across cloud and Linux environments.
- Manage application deployments, production infrastructure, monitoring, security, troubleshooting, and day-to-day DevOps operations for the product environment.
- Build and maintain CI/CD pipelines using **GitHub Actions and Jenkins** for automated application deployments.
- Deploy and manage applications using **Docker, Docker Compose, and Kubernetes**.
- Configure and maintain **Nginx, SSL, DNS, firewalls, databases, and Linux servers** for application environments.
- Build centralized monitoring using **Prometheus, Grafana, Node Exporter, cAdvisor, and Alertmanager**.
- Develop **Python and Bash scripts** for automation, health checks, deployments, backups, migrations, and service monitoring.
- Perform server, application, and database migrations, including infrastructure optimization and production troubleshooting.
- Build secure and isolated environments using **VPN, private networking, firewall policies, and access controls**.
- Manage a browser-based developer environment using **Code Server**, providing developers with remote access to their workspaces and applications.
- Manage developer workspace access, permissions, project environments, and required development services.
- Provide controlled access to **AI development tools** within developer environments for coding and development assistance.
- Optimize infrastructure resources and implement **open-source/self-hosted solutions** to reduce operational and licensing costs.
- Implement server security using **Fail2Ban, UFW, SSH security, Cloudflare, and server hardening**.

Infrastructure Project

Cyber Security Lab – Isolated Infrastructure Environment

Rathinam College, Coimbatore | Proxmox, Linux, VPN, Docker

- Designed and deployed an isolated cyber security laboratory using a **Proxmox virtualization server**.
- Created virtual machines and isolated environments for cyber security applications and testing.
- Configured private networking, VPN access, firewall rules, and controlled access between environments.

- Deployed and maintained multiple cyber security applications within the isolated infrastructure.
- Managed the environment remotely, including virtualization, networking, application deployment, and troubleshooting.

Infrastructure Cost Optimization & Migration
DigitalOcean, Linode, Docker, Linux, Nginx, MySQL, Cloud Infrastructure

- Analyzed infrastructure architecture and identified opportunities to reduce unnecessary server and resource costs.
- Migrated applications and services to optimized infrastructure based on actual workload requirements.
- Optimized server resources, application deployments, databases, and supporting services to improve infrastructure efficiency.
- Performed infrastructure migrations while maintaining application availability and service continuity.
- Replaced suitable paid services with open-source and self-hosted alternatives where practical.
- Optimized infrastructure architecture to reduce recurring cloud and server operating costs.

Additional Projects

Centralized Monitoring & Alerting System
Prometheus, Grafana, Node Exporter, cAdvisor, Alertmanager, Telegram, Docker

- Built centralized monitoring for multiple servers and services.
- Created Grafana dashboards for CPU, memory, disk, network, and container monitoring.
- Configured Alertmanager and Telegram notifications for service and server failures.

E-Commerce Full Stack Application
React.js, Node.js, MongoDB, Docker, Vercel, Render

- Developed a full-stack eCommerce application with authentication, product management, and order management.
- Built REST APIs using Node.js and MongoDB.
- Containerized and deployed application services using Docker, Vercel, and Render.

Key Accomplishments

- Managed and maintained **200+ servers and services** across distributed production environments.
- Handled production infrastructure migrations involving applications, databases, servers, DNS, Nginx, SSL, and networking.
- Built isolated infrastructure environments using **Proxmox, VPN, virtualization, networking, and security controls**.
- Built and managed browser-based developer environments with **Code Server, workspace isolation, access control, and AI-assisted development capabilities**.
- Specialized in **infrastructure cost optimization** through resource analysis, migration, architecture optimization, and open-source alternatives.
- Automated repetitive infrastructure tasks using Python and Bash.
- Implemented centralized monitoring and alerting using Prometheus and Grafana.
- Designed infrastructure using open-source technologies to reduce licensing and operational costs.

Education

Master of Computer Applications (MCA) **2022 – 2024**
KGISL Institute of Information Management, Coimbatore *80%*

Bachelor of Computer Applications (BCA) **2019 – 2022**
The American College, Madurai *83%*

Certifications

- **AWS Cloud Practitioner Essentials – Coursera**
  Cloud concepts, AWS services, pricing, architecture, and security fundamentals.
- **Python Basics – Coursera**
  Python fundamentals, data structures, functions, and scripting.
- **Cloud Computing – NPTEL**
  Cloud architecture, virtualization, and IaaS, PaaS, and SaaS service models.