Vishnu Mohan

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Summary

Working as a software developer, I developed a growing interest in infrastructure and system operations. This shift gave me deeper insight into how my code runs in production and gave me a better clarity of my work. I'm now focused on building reliable systems, with strong interests in infrastructure, distributed systems, and networking.

Experience

Software Engineer   *Remote, India*
Rhombuz.io   *Sep 2021 – Aug 2023*

- Built a design systems for T-Mobile and successfully migrated over 40+ components, reducing bundle size by 30%, ensuring design consistency and performance.
- Collaborated closely with product managers to translate customer requirements into scalable front-end features, while actively participating in agile planning, code reviews, and delivering technical demos.
- **Additionally managed core AWS services** (IAM, EC2, Lambda, S3, CloudFront) to support internal tools and delivery infrastructure.

Projects

GitOps-Based K8s Deployment (Hetzner VPS)   *GitLab Repo* ↗ *Live* ↗

- Deployed a production-grade, scalable, multi-node Kubernetes cluster using Kubeadm.
- Implemented GitOps using ArgoCD; apps packaged using Helm charts.
- Configured HPA for auto-scaling; monitored using Grafana, Prometheus and Loki improving observability.
- Continuously monitored and actively maintained in a production environment.
- Tools Used: Kubeadm, Traefik, Cert-Manager, ArgoCD, Helm, Loki, Grafana & Prometheus

CI/CD Pipeline with GitLab Runner (Self-Hosted)   *GitLab Repo* ↗ *Doc* ↗

- Created a secure DevSecOps pipeline with branch protection, using tools like SonarQube, Trivy, and OWASP for vulnerability scanning and ECR integration using IAM roles.
- Automated build, test, and deploy phases running in self-hosted Gitlab Runner on my homelab infrastructure to minimize cloud spend and improve autonomy.
- Tools Used: SonarQube, Trivy, OWASP, AWS ECR, Gitlab CI, Gitlab Runner

Self-Hosted Homelab for DevOps Stack   *GitHub Repo* ↗

- Maintaining VMs and LXCs running Jenkins, GitLab Runners, Portainer, and monitoring tools 24*7.
- Running my personal DevOps stack with below 70% utilisation of my 8GB RAM, 8CPU unit.
- Tools Used: LXC, Docker, Jenkins, SonarQube, GitLab Runners, Portainer, Prometheus & Grafana

Portfolio Website   *GitHub Repo* ↗ *Live* ↗

- Portfolio website hosted using AWS S3 and CloudFront with Terraform for infrastructure provision.
- Lambda Function & DynamoDB for storing and fetching visitors count to track traffic to my portfolio.
- AWS Shield for preventing DDoS; CloudWatch for observability.
- Tools Used: AWS S3, CloudFront, API Gateway, AWS Shield, Lambda, Dynamo, Terraform

Education

Bachelor of Computer Application **- Bangalore University**   *2021*

Technologies

Languages: Go, JavaScript, Shell Scripting

Technologies: AWS, GitLab, Github, Terraform, Docker, Kubernetes, Helm, Prometheus, Grafana, Loki, ELK