



NIHAL TP

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PROFESSIONAL SUMMARY

DevOps-focused engineer with hands-on experience in Linux systems administration, hosting infrastructure support, Nginx configuration and WAF hardening, and LiteSpeed stack deployment. Comfortable with Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, and ArgoCD, with personal project experience deploying containerized microservices on AWS EKS using Infrastructure as Code and GitOps practices. Experienced in CI/CD pipeline development, container orchestration, and monitoring with Prometheus and Grafana.

WORK EXPERIENCE

DevOps Engineer Intern — CloudHouse Technologies | Jan 2026 – Jun 2026

- Provided Linux server support and troubleshooting for CloudHouse's Cloudstick control panel and external client servers — including resolving SSL certificate issues, AWS MFA account recovery, and general service/performance/disk issues in production.
- Managed and supported multiple hosting control panels (cPanel, CWP, Cloudstick) for client-facing operations.
- Updated the company's Nginx stack to a newer version and implemented a Web Application Firewall (WAF) using the OWASP Core Rule Set with geo-based access restrictions.
- Worked hands-on across Apache, Nginx, and LiteSpeed web servers, setting up and configuring an OpenLiteSpeed stack as a performance-optimized alternative for the Cloudstick platform.
- Wrote Bash scripts to automatically forward incoming mail on the company's custom mail server to both Roundcube webmail and an internal API consumed by the admin dashboard.
- Configured MailBaby SMTP relay for client mail servers, primarily on Exim and occasionally Postfix — including supporting a client's transition from Postfix to a new Exim-based server to resolve a performance issue.

PERSONAL PROJECTS

E-Commerce DevOps Implementation — Personal Project

- Containerized microservices written in Go, Java, and Python using Docker, with Docker Compose for local orchestration.
- Provisioned an EKS cluster within a custom VPC using Terraform, with an S3 backend for remote state management and version control.
- Created Kubernetes Deployment and Service manifests for each microservice and deployed them to the EKS cluster.
- Configured an ALB Ingress Controller and Kubernetes Ingress resources to securely expose frontend services to the internet, with custom domain access via AWS Route 53.
- Developed a CI pipeline in GitHub Actions to build, validate, and auto-update Kubernetes manifests on pull requests using GitHub Secrets.
- Integrated ArgoCD for automated GitOps-based deployment of microservices onto the EKS cluster.

CI/CD Pipeline for Wanderlust Web App — Personal Project

- Built a separate EKS cluster and infrastructure using Terraform to support CI/CD pipeline experimentation independent of other project environments.
- Developed Jenkins pipelines to automate build, test (OWASP, SonarQube), image scanning (Trivy), and Docker deployments, using Jenkins Shared Libraries and secure credentials for maintainable, parameterized pipelines.
- Automated Kubernetes manifest updates via shell scripting and triggered GitOps deployments using ArgoCD on AWS EKS.
- Managed Kubernetes deployments for frontend, backend, Redis, MongoDB, and associated persistent volumes.
- Configured monitoring with Prometheus and Grafana for real-time application and cluster insights.

TechEazy DevOps Assignment — Automated Multi-Environment Infrastructure & CI/CD Pipeline

- Automated multi-environment AWS infrastructure deployment using Terraform.
- Built CI/CD pipelines with GitHub Actions for environment-specific application delivery.
- Managed environment-specific configurations and secrets securely via S3 and GitHub Secrets.
- Implemented auto-shutdown policies to optimize cloud resource costs.
- Automated Java 21 application deployment on EC2 instances using Maven.
- Configured IAM roles and policies to enforce security and access control.

SKILLS

Cloud & IaC: AWS, Terraform

Containers & CI/CD: Docker, Kubernetes, Helm, Jenkins, GitHub Actions, ArgoCD

Servers: Nginx, OpenLiteSpeed, Exim, Postfix, Roundcube, MailBaby (SMTP relay)

Observability & Automation: Prometheus, Grafana, Ansible, Shell, Python

Control Panels & Other: cPanel, Cloudstick, CWP, MySQL, DNS

LANGUAGES

English (Fluent), Malayalam (Native), Tamil (Basics), Hindi (Basics)

EDUCATION

Standard	%	Year	Board
10th Std	90	2018	Kerala State Board
12th Std	91	2020	Kerala State Board
B.Tech, CSE	7.06 CGPA	2024	KTU