

Charith Kalhara

Cloud and DevOps Engineer

 charithkalhara2005@gmail.com

 (+94) 741333018

 www.linkedin.com/in/charithkalhara

 <https://github.com/CharithKalhara>

 Sri Lanka

 [Charith-portfolio](#)

Profile

Motivated Computer Science undergraduate with an interest in Cloud Computing and DevOps. Familiar with AWS, Microsoft Azure, Oracle Cloud Infrastructure, Docker, Git, Linux, Terraform, Kubernetes, GitHub Actions, Prometheus, and Grafana through academic and personal projects. Familiar with Java, JavaScript, SQL, HTML, and CSS, with a foundation in software development principles. Certified in Microsoft Azure Fundamentals (AZ-900) and Oracle Cloud Infrastructure Foundations. Seeking a Cloud Computing or DevOps internship to apply my technical knowledge, contribute to infrastructure and automation projects, and build practical experience in cloud platforms, CI/CD, and Platform Engineering.

Skills

Cloud Computing

AWS | Microsoft Azure | Oracle Cloud Infrastructure (OCI) | EC2 | S3 | IAM | VPC | Route 53 | Load Balancing |

Programming & Databases

Python | Java | MySQL | PostgreSQL | SQLite | MongoDB | AWS RDS | YAML

DevOps & Infrastructure

Docker | Kubernetes (K3s) | Terraform | CloudFormation | Ansible | Git | GitHub Actions | CI/CD | Linux | Nginx

Monitoring & Observability

Prometheus | Grafana | Node Exporter | Logging | Health Checks | Performance Monitoring | CloudWatch

Experience | Projects

Cloud-Native Kubernetes Lab

Designed and implemented a cloud-native deployment platform using Terraform, Ansible, Kubernetes, Docker, GitHub Actions, and AWS to automate infrastructure provisioning, deployment, and CI/CD.

- Provisioned AWS infrastructure using Terraform, including networking and compute resources.
- Automated server configuration and K3s installation using Ansible.
- Deployed and managed a containerized Node.js application on Kubernetes.
- Built CI/CD workflows with GitHub Actions to automate image builds and deployments.
- Configured NGINX Ingress and Domain DNS for secure application access.
- Monitored Kubernetes workloads using Prometheus and Grafana.

Techniques/Tools used:

AWS, Terraform, Ansible, Kubernetes (K3s), Docker, Docker Hub, GitHub Actions, GitHub, Linux, kubectl, YAML, NGINX Ingress Controller, Let's Encrypt, AWS Route53, Node.js, Kubernetes

Cloud-Based Court Case Management System

Developed a secure cloud-based Court Case Management System for a government office to digitize and manage over 2,000 court case records, replacing a manual paper register and automating monthly reporting.

- Designed, developed, and deployed a cloud-native Laravel/MySQL application on Oracle Cloud Infrastructure (OCI) to digitize and manage 2,000+ court case records, replacing a manual record-keeping system.
- Engineered a secure OCI deployment by isolating Laravel and MySQL on dedicated Compute Instances with private VCN networking and network isolation.
- Implemented real-time dashboards and automated PDF reporting, eliminating manual monthly counting of pending court cases and reducing reporting time by 95%.
- Optimized infrastructure costs by leveraging OCI Always Free cloud resources, reducing hosting expenses by approximately USD 20/month while maintaining secure 24/7 application availability and reliable database operations.

Techniques/Tools used:

Laravel, PHP, MySQL, Docker, Docker Compose, GitHub Actions, Oracle Cloud Infrastructure (OCI), Ubuntu Linux, Nginx, Oracle Cloud VCN, SSL/TLS, DNS, mPDF, Git, GitHub.

Affordable and Clean Energy Awareness Website

Created a responsive educational website highlighting UN Sustainable Development Goal 7 on Clean Energy. It educates users on renewable and sustainable energy with informative content, visuals, and interactive navigation.

- Developed an educational web platform to promote awareness of renewable energy.
- Designed a responsive, multipage website with intuitive navigation to enhance user experience across various devices and screen sizes.
- Integrated structured content and images to educate users on energy conservation, sustainability, and environmental responsibility.
- Created a well-organized sitemap to improve website organization and navigation.

Techniques/Tools used:

HTML, CSS, Cloudflare Pages

Education

Bachelor of Science (Hons) Computer Science

(2025-present)

Informatics Institute of Technology (University of Westminster)

Dean's List Recognition – 2025 for academic excellence.

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900) - Microsoft (2026)
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate - Oracle (2026)
- YouTube Labs – Kubernetes Crash Course - KodeKloud (2026)