

# Kavindu Dharmasiri

Software Engineering Undergraduate • DevOps Enthusiast

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🌐 Portfolio    in LinkedIn    🐙 GitHub

## Professional Summary

Software Engineer specializing in **DevOps**, with a strong focus on **infrastructure automation**, **CI/CD pipelines**, and modern DevOps practices such as **GitOps**. Experienced in **cloud technologies**, **containerization**, and **orchestrated environments**, with a solid understanding of **scalable** and **reliable system design**, while also skilled in **full-stack web development**, capable of designing, developing, and deploying **end-to-end web applications** with seamless integration into **cloud-native architectures** and **automated delivery pipelines**.

## Technical Skills

<b>Programming Languages</b>	JavaScript, TypeScript, Python, Java
<b>Web Development</b>	HTML, CSS, React, Node.js, Flask, OpenAPI, WordPress
<b>DevOps &amp; Automation</b>	Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI/CD, Ansible, Terraform, Kustomize, Argo CD, SonarQube
<b>Cloud Platforms</b>	Amazon Web Services (AWS), Microsoft Azure
<b>Databases</b>	MySQL, MongoDB, DynamoDB
<b>AI / Machine Learning</b>	Machine Learning, Deep Learning, AI Agents
<b>Linux &amp; Scripting</b>	Linux Commands, Bash Scripting
<b>Design &amp; Architecture Tools</b>	Figma, Lucidchart, Draw.io
<b>Mobile Development</b>	Flutter
<b>Version Control &amp; Collaboration</b>	Git, GitHub

## Education

- Sri Lanka Institute of Information Technology** - BSc (Hons) Software Engineering Jan 2021 – Present
- **Key Coursework:** Software Development, Architectural Design, DevOps Practices, Cloud Computing, AI and Machine Learning, Data Structures and Algorithms, Database Systems, Web Development and more.
  - **GPA:** 3.25
- Ananda College, Colombo** Sep 2015 – Sep 2020
- G.C.E. Advanced Level (A/L) in Physical Sciences Stream (2 Cs, 1 S)
  - Completed the G.C.E. O/Level examination with **9 A grades**

## Projects

### Portfolio Website with GitOps

[Live demo](#) 

Cloud-Native Portfolio Platform • DevOps Project

- Multi-service portfolio platform consisting of a public frontend, backend API, and admin panel for dynamic content management.
- **GitOps-driven deployment** – fully automated CI/CD pipeline with zero manual intervention across staging and production environments.
- **Cloud-native architecture** – applications deployed on an AWS EKS cluster with Kubernetes, Ingress-managed load balancing, and scalable workloads.
- **Technologies used** – TypeScript, React, Express, Docker, Kubernetes, Terraform, GitHub Actions, Argo CD

## University Travel Management System

[Project Demo](#)

*Campus Transportation Platform • Full-Stack & DevOps Project*

- MERN-based university bus ticketing system designed to digitize and streamline campus transportation services.
- **User-centric features** – JWT-based authentication, online ticket purchasing, QR-code digital tickets, and real-time notifications.
- **Interactive routing** – integrated Google Maps API for route visualization and navigation.
- **Automated CI/CD pipeline** – AWS-based deployment with Jenkins, Docker, Terraform, Ansible, and SonarQube quality gates.
- **Technologies used** – MongoDB, Express, React, Node.js, Docker, Jenkins, AWS, Terraform, Ansible

## Audio Classification System with Admin Panel

[Project Demo](#)

*Assistive AI Platform • Cloud & Machine Learning Project*

- Real-time environmental sound classification system designed to enhance situational awareness for deaf and hard-of-hearing individuals.
- **Deep learning pipeline** – CNN-based audio classification model optimized for low-latency and mobile deployment.
- **Cloud-native ML architecture** – model training and deployment using AWS SageMaker, with scalable inference via Lambda and API Gateway.
- **Admin-driven model management** – web-based interface enabling non-technical users to upload data, retrain models, and deploy updates dynamically.
- **Technologies used** – AWS SageMaker, Lambda, S3, API Gateway, Python, Deep Learning

## Publications

### Enhancing Environmental Awareness for Hard of Hearing Individuals: A Mobile Application Approach

Oct 2025

*Proceedings of the Tenth International Congress on Information and Communication Technology (ICICT 2025), Springer Nature Singapore Pte Ltd*

[Springer Link](#)

## Certifications

### Decoding DevOps – From Basics to Advanced Projects with AI

[View Certificate](#)

- **Concepts covered** – Linux, CI/CD, Docker, Kubernetes, Terraform, Ansible, AWS, GitOps, Monitoring & AI-powered DevOps tools

### Docker and Kubernetes: The Complete Course from Zero to Hero

[View Certificate](#)

- **Concepts covered** – Docker containers, image creation, networking, Kubernetes architecture, deployments, scaling, security, and managed clusters

### AWS Cloud Technical Essentials

[View Certificate](#)

- **Concepts covered** – AWS core services, IAM & security, EC2, Lambda, ECS, RDS, DynamoDB, and S3

### Implement GitOps Principles with Azure, AWS, and Terraform

[View Certificate](#)

- **Concepts covered** – GitOps (pull-based), Terraform IaC, Kubernetes (AKS), AWS, Azure, Argo CD, CI/CD, and multi-cloud deployments