

# Dhanika Weeraseskara

Software engineer with a strong focus on Linux, Cloud Infrastructure, and DevOps Practices.

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## Skills

Languages : Java, Python, Javascript, Bash

DevOps & Cloud : AWS, S3, Docker, Github Actions, Terraform

Databases & ORM : MySQL, PostgreSQL, Hibernate, SQLAlchemy

Web Technologies : React, NodeJS, Flask, JavaEE, Tailwind Css

Monitoring & Logging : Grafana, Prometheus, Loki, Log4j

Operating Systems : Linux Ubuntu, Redhat Fedora, Windows Server

## Projects

Bi-Directional CI/CD Pipeline | Github Actions, AWS, Docker, Linux

- Designed and implemented a bi-directional CI/CD workflow where a deployed web application pushes commits to GitHub, triggering automated rebuild and redeployment.
- Implemented a CI/CD pipeline using GitHub Actions to build Docker images, push them to Amazon ECR, and remotely deploy updated containers to an AWS EC2 instance.
- Deployed a containerized Next.js web application on AWS EC2, using Docker for consistent runtime environments and ECR for simplified image versioning and lifecycle management.
- Integrated Prometheus and Grafana in a Docker Compose setup to monitor EC2 system metrics and visualize application and server performance.

<https://github.com/dhakiweere/reflex-ci-cd>

File System Monitor with Real-Time Change Detection | Python, Pytsx3, Local File System

- Designed a Python Terminal Program for real-time file system monitoring & tracking metadata
- Implemented Recursive File Scanning that automatically maps all files and metadata in the specified directory.
- Integrated a real-time monitoring feature to continuously checks for changes in file metadata (e.g., file size, access times, and renames).
- Added Pytsx3 offline library for voice alert notifications whenever a file change is detected.

<https://github.com/dhakiweere/master-observer>

CLI Application for Lan Inter Device Communication | Java, java.net, Socket, TCP, UDP

- Developed a console chat application for LAN communication using Package java.net
- Developed with Dual Functionality so a single instance can act as both server and client.
- Uses TCP/IP Protocol to reliably communicate over LAN.
- Implemented Server IP Broadcasting over network easy discovery of server IP.

<https://github.com/dhakiweere/lan-chat>

## Certifications

LFS101: Introduction to Linux (Certification)

Sep 2025

The Linux Foundation

[https://www.credly.com/badges/6c154aa5-d2eb-427b-aff2-6b3b43059c49/public\\_url](https://www.credly.com/badges/6c154aa5-d2eb-427b-aff2-6b3b43059c49/public_url)

AWS Cloud Practitioner Essentials

Jan 2026

AWS Skill Builder

Python Core (Online Course)

2022

Sololearn

<https://www.sololearn.com/certificates/CT-TC0H4LQW>

## Education

Bsc(Hons) Software Engineering

Java Institute for Advanced Technology

Mar 2022 - Present (Expected Apr 2026)

- Bsc(Hons) in Software Engineering Top Up - Birmingham City University UK
- Level 5 Professional Higher Diploma in Software Engineering by UK Awards
- Level 4 Professional Diploma in Software Engineering by UK Awards

<https://www.javainstitute.edu.lk/>

Kingswood College

Primary, secondary

2008 - 2021

## Interests

Game Development

Cryptography

Swimming

## References

Poojitha Irosha

Former Lecturer at Java Institute for Advanced Technology

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