






UDARA SHANUKA

DevOps | Cloud | Software Engineering Intern

 Udarasenarath875@gmail.com |  074 0116345 |  <https://medium.com/@udarasenarath>

 <https://www.linkedin.com/in/udara-senarath-8b5a73263/> |  <https://github.com/udaaraSH23>

Summary

Electronics & Computer Science undergraduate with hands-on experience in DevOps, CI/CD pipelines, cloud automation, and full-stack engineering. Built production-grade deployments using Docker, GitHub Actions, Kubernetes, and Terraform. Delivered multi-backend systems and real-world commercial applications. Seeking an internship in DevOps / Cloud / Software Engineering.

Education

Bachelor of Science (Hons) in Electronics and Computer Science

University of Kelaniya, Sri Lanka | 2022 – Present

- **Current GPA:** 3.12 / 4.0
Related Coursework: Computer Science: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Database Management Systems, Data Communications and Networks, Web & Internet Technologies, Cyber Security & Forensics, Full-Stack Development, Machine Learning, Intelligence Systems.

Technical Skills

- DevOps & Cloud - Docker, Kubernetes (K3s), GitHub Actions, Jenkins, Terraform, Ansible, AWS, Azure, GCP, Linux, Prometheus, Grafana, Nginx
- Backend - Node.js, Express.js, Spring Boot, REST APIs, Axios
- Frontend - Next.js, React, TypeScript, JavaScript, Angular
- Programming - Java, JavaScript, TypeScript, Python, C
- Databases - PostgreSQL, MySQL, MongoDB
- Tools - Git, Postman, VS Code, IntelliJ, Jest, ESLint
- Additional - TensorFlow, MediaPipe, OpenCV

Projects

University Multi-Portal Management System – SSO + DevOps Deployment ([Git](#))

Personal | 2025: Dec – 2026: Jan

Next.js, Turborepo, TypeScript, Prisma, PostgreSQL, K3s, Terraform, ArgoCD, Ansible, WSO2 Identity Server

- Engineered a three-portal architecture (Student, Library, Admin) using a shared UI component system.
- Implemented Single Sign-On (SSO) with WSO2 Identity Server, including user roles and access policies.
- Built backend services with TypeScript + Prisma + PostgreSQL
- Automated cloud provisioning on Azure using Terraform, and deployed containerized workloads on a K3s cluster.
- Implemented GitOps pipelines with ArgoCD + Ansible for zero-downtime deployments.
- Integrated Prometheus + Grafana dashboards and service-level monitoring.
- Ensured code quality via strict TypeScript rules, ESLint, and SonarQube static analysis.

RosaLover – E-Commerce Platform ([Git](#))

(React, Spring Boot, MySQL, Stripe)

Group | 2024: Oct – 2025: Janu

(Focus: Full-Stack Functionality)

- Designed and developed an e-commerce website with features like product management, wishlist, cart, and payment gateway.
- Built an admin panel for managing inventory, orders, and user roles.
- Contributed to frontend and backend design and system integration.

Trekking Tours – Commercial Web Application ([Live Site](#))

(Next.js, Vercel, Resend, Analytics)

Personal | Commercial Project

(Focus: Deployment, Analytics, Customer Engagement)

- Developed and deployed a production website with real customer inquiries.
- Integrated analytics to analyze visitor behavior and improve engagement.
- Delivered SEO-optimized, responsive UI for enhanced reach.

Netflix Clone – Streaming Platform with Dual Backends ([Git](#))

Next.js, React, Express.js, Spring Boot, MongoDB, MySQL

Personal | 2024:Aug

(Focus: Full-Stack Engineering & Comparative Backend Development)

- Built a Netflix-like streaming app with authentication, media browsing, and watchlist features.
- Implemented **two backends** (Express.js & Spring Boot) with identical functionality for comparative analysis.
- Integrated secure API communication, JWT authentication, and database handling across both stacks.
- Docker Environment Setup for Frontend and Backend.

AI-Driven 3D Posture Detection in Olympic Weightlifting (Research Project) ([Git](#))

Python, TensorFlow, OpenCV, MediaPipe, LSTM, Automation Pipelines

2024:Jun – 2025:june

(Focus:Python Pipeline)

- Designed an automated pipeline for multi-camera video processing, including frame extraction, pose estimation, joint angle computation.
- Implemented Python-based feature engineering pipelines to automate dataset creation from raw videos.
- Developed CNN–LSTM models for phase classification and real-time feedback generation in Snatch & Clean-and-Jerk.

Movie Booking Systems (Java & C) [Git](#)([Java](#), [C](#))

(Java (Swing GUI, OOP), C (Functional Programming))

Group | 2022:Aug – 2022:Oct | 2023:Feb -2023:Mar

(Focus: Programming Paradigms & Core CS Concepts)

- Developed a movie booking system in **Java** displaying OOP principles with GUI for user interaction.
- Built a separate **C implementation** focusing on procedural programming and data structures.

Certifications

- **Front End Development Libraries** – freeCodeCamp | Aug 2024 |
- **Server-Side Web Programming** – University of Moratuwa | Jul 2024 | Credential ID: TYHBqa2SrZ
- **Front End Web Development** – University of Moratuwa | May 2024 | Credential ID: 0mzOfqedS4
- **Web Design for Beginners** – University of Moratuwa | Jan 2024 | Credential ID: cv8CQX5gBC
- **JavaScript Algorithms and Data Structures** – freeCodeCamp | Dec 2023
- **Responsive Web Design** – freeCodeCamp | Aug 2023

Reference

Professor A.L.A.K. Ranaweera

Coordinator of B.Sc. (Honor's) in Electronics and Computer Science degree program,
Department of Physics and Electronics,
Faculty of Science, University of Kelaniya.
Phone: +94777179201 | Email: arunaran@kln.ac.lk

Dr. (Mrs.) W. A. Chinthanie Weerakoon

Senior Lecturer
Department of Statistics & Computer Science,
University of Kelaniya, Sri Lanka.
Mobile: 0777 194 802
Email: chinthanie@kln.ac.lk