

# Chamindu Madhushan

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## SUMMARY

BICT (Hons) in Software Technology 4th-year undergraduate with hands-on experience in full-stack web development using the MERN stack. AWS Certified Cloud Practitioner with a strong foundation in software engineering principles, RESTful API development, and CI/CD automation. Passionate about building scalable applications with Java and Spring Boot. Seeking a Software Engineer Intern role to apply strong problem-solving skills and modern development practices in a professional environment.

## EDUCATION

**Bachelor of Information and Communication Technology (Honors)** **July 2023 – Present**  
*University of Sri Jayewardenepura, Faculty of Technology* *Focus: Software Technology*

**Relevant Coursework:** Software Engineering, Object-Oriented Programming (OOP), Data Structures & Algorithms, Web Application Development, Database Systems, Machine Learning, Data Mining and Warehousing, Software Deployment & Evolution, Network System Design, System Administration.

**G.C.E. Advanced Level – Engineering Technology Stream** **Aug 2021**  
*Result: 3A passes | Island Rank: 24*

## TECHNICAL SKILLS

**Languages:** JavaScript, Java, Python, HTML, CSS, SQL

**Frameworks & Libraries:** React, Node.js, Express.js, Spring Boot, FastAPI

**Databases:** MongoDB, MySQL

**DevOps & Cloud:** Docker, GitHub Actions, AWS (EC2, S3, ECR, App Runner), Azure (Basics)

**Tools & Platforms:** Git, GitHub, Postman, Figma, Linux, Shell Scripting (Bash)

## PROJECTS

### End-to-End MLOps Pipeline with RESTful API on AWS

*Tech Stack: Python, FastAPI, Docker, AWS (EC2, S3), GitHub Actions, MLflow, DVC*

- Designed and developed a RESTful prediction API using FastAPI, enabling clients to consume machine learning model outputs via clean HTTP endpoints.
- Architected a modular application structure separating API logic, model training, and data management layers, following software engineering best practices for maintainability and scalability.
- Containerized the application using Docker, ensuring consistent runtime environments across development and production with zero-downtime deployments on AWS EC2.
- Engineered automated CI/CD workflows using GitHub Actions to orchestrate build, test, and deploy stages, reducing manual deployment effort by 90%.
- Implemented data and model version control using DVC with AWS S3, managing 5+ versions with complete lineage tracking and rollback capabilities.
- Achieved 100% reproducibility across the pipeline with automated retraining and deployment within 15 minutes of code changes.

### Containerized E-Commerce Platform with Automated Deployment

*Tech Stack: Docker, GitHub Actions, AWS (EC2, ECR, VPC)*

- Developed and deployed an e-commerce web application on AWS EC2 inside a custom VPC with security groups to ensure network isolation and secure access.
- Built an automated CI/CD pipeline using GitHub Actions to build, containerize, and deploy the application via SSH, eliminating 100% of manual release steps.

### Serverless Application Deployment on AWS App Runner

*Tech Stack: Docker, GitHub Actions, AWS (App Runner, ECR)*

- Packaged the application into a lightweight Docker container, streamlining environment setup and onboarding for new developers.
- Implemented a fully automated CI/CD pipeline using GitHub Actions, reducing deployment time by over 90% and ensuring consistent releases.
- Deployed on AWS App Runner with fully managed auto-scaling, reducing infrastructure provisioning time by 80%.

## CERTIFICATIONS

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- AWS Certified Cloud Practitioner (CLF-C02) – Amazon Web Services
- LFS101: Introduction to Linux – Linux Foundation
- Learn to Code in Python 3: Programming Beginner to Advanced – Udemy
- Fundamentals of MLOps – KodeKloud

## SOFT SKILLS

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Problem Solving | Effective Communication | Agile Collaboration | Customer-Oriented Approach

## REFERENCES

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### **Dr. D.L. Chamara Pramod Liyanage**

Senior Lecturer (Grade II), Department of ICT, Faculty of Technology

University of Sri Jayewardenepura

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### **Upeksha Madhu Hansani**

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