

Medhani Premathilaka

Software Engineer Intern

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SUMMARY

CS undergraduate with hands-on experience in Spring Boot, C# (.NET), React, Docker, and AWS cloud services. Skilled in CI/CD pipelines, containerization, and cloud deployment, with the ability to adapt to dynamic, fast-paced environments. Passionate about building scalable, reliable, and automated systems to drive impactful software solutions.

EDUCATION

Bachelor in Computer Science

Aug 2023 – Present

- University of Ruhuna, Matara, Sri Lanka

- Current GPA: **3.66/4.0**

GCE A/L Physical Science Stream

2021(A/L)

- Rathnaveli Balika Vidyalaya, Gampaha, Sri Lanka

- Z-Score: **1.4654**

SKILLS

Languages: Java, JavaScript, TypeScript, HTML, CSS, C# (.NET), C, PHP, SQL

Frameworks & Libraries: Spring Boot, ReactJS, Express.js, Node.js, JavaFX, Material UI, Guna UI2, shadcn/ui, Tailwind CSS

Developer Tools: Git, GitHub, Docker, Docker Compose, GitHub Actions (CI/CD), Postman, Swagger, Nginx, Kafka, Scene Builder, Redis, Linux

Cloud & Infrastructure: AWS EC2, AWS S3, AWS RDS, AWS Lambda, IAM, Terraform

Security & Auth: JWT, BCrypt, SHA-256, Role-Based Access Control

Project Management: Agile, GitHub Projects

PROJECTS

Third Year Group Project (Integrated ERP System: A Digital Solution for Business Process Automation) -Present

- To digitize and streamline the operational processes of Hiru Sandu Bridal Wear (PVT) LTD through a robust web application with AI-driven Retrieval-Augmented Generation (RAG).

Java Springboot , React.js (TypeScript), Docker, AWS S3,AWS EC2, Github Actions, PostgreSQL, shadcn/ui, Docker, Redis, Zustand, Tanstack, Zod, Kafka, Nginx, Twilio API, RAG Architecture, OpenAI API, Terraform

WorkMate360

- WorkMate360: Secure full-stack employee management platform built with Spring Boot and React, featuring JWT-based authentication, role-based access control, PostgreSQL (Supabase), and production deployment on AWS EC2 with Nginx and HTTPS.

React.js (TypeScript), Material UI (MUI), JWT, BCrypt password hashing, Java Springboot, Supabase (PostgreSQL), Nginx (reverse proxy, HTTPS), AWS EC2, Vercel, SSL & DNS configuration

DineEase

- DineEase: Smart canteen management system built with C# (.NET) and SQL Server, applying MVC architecture and design patterns (Singleton, Factory Method) to optimise ordering workflows and reduce queue times.

C# (.NET Framework), Guna UI2, SQL Server (AWS Cloud), SHA-256 password encryption, Singleton Pattern, Factory Method Pattern

FisherMate

- FisherMate: Java/JavaFX desktop app for intelligent voyage planning, featuring role-based access, SHA-256 security, MySQL (XAMPP) database, weather API integration, and automated provision calculation with reporting.

Java, JavaFX, Scene Builder, OOP concepts, SHA-256 password encryption, Role-Based Control, MySQL via XAMPP

CERTIFICATIONS & Professional Experience

IT Assistant (System Operator) Charitha Dissanayaka (PVT) LTD (Parttime)
Oct 2022 – Present

Winner – Road to Rush Coder 3.0 Hackathon, Dept. of Computer Science, University of Ruhuna, Jan 2025

Participant – Road to InsurgEX 1.0 Hackathon, Dept. of Computer Science, University of Ruhuna, Dec 2023

REFERENCES

Mr. R.M. Lakshitha Viraj - Lecturer(Probationary)

Department of Computer Sciene, University of Ruhuna

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Mr. Sanjeewa Siriwardhana - Operation Director

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