



# THARUSHA LIYANAGE

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## Summary

I am an undergraduate in Computer Science and Technology at Uva Wellassa University of Sri Lanka, aspiring to build a career as a Software Engineer. I possess a strong foundation in full-stack development, gained through academic projects and self-driven learning. I am passionate about problem-solving, collaborative teamwork, and continuously exploring new technologies to design and develop innovative, high-performance, and user-centric software solutions.

## Core Competencies

Full-Stack Development | API Design & Integration | Database Management | AI & Machine Learning Concepts | Intelligent Application Development | Problem-Solving & Optimization | Agile Collaboration | Software Testing & Debugging

## Education

### Bachelor of Science Honors in Computer Science & Technology

2023-2026

Uva Wellassa University of Sri Lanka

CGPA:3.70/4.00

### Diploma in Information Technology

2022-2023

ESOFT Metro Campus in Sri Lanka

## Research Project

### Personalized micro tutor and question generator using agentic AI and RAG

ongoing

- Develop an AI-powered microtutor system capable of providing personalized learning support.
- Implement a question generation module to create adaptive and context-based questions.
- Utilize RAG architecture for integrating external knowledge sources to improve answer accuracy.
- Technologies: Python 3.x, LangChain, TensorFlow, React.js, RESTAPI, Hugging Face Transformers, MongoDB

## Projects

### Beach Hotel & Coral Reef Tour Booking Platform

2025

- Overview: A web application that enables users to book hotel rooms and coral reef tours, explore virtual reef experiences, and access personalized dashboards, with full admin panel functionality.
- Technologies: React, Node.js, Next.js, MongoDB, API Integration
- Source: [Frontend source code](#), [Backend source code](#)

### Clothing Shop Website

2025

- Overview: Full-stack e-commerce website for managing products, customers, and orders.
- Technologies: React, Spring Boot, PostgreSQL, Tailwind CSS
- Source: [Frontend source code](#), [Backend source code](#)

### Donation system for medical operations(LifeLine)

2024

- Overview: Developed LifeLine, enabling users to view verified medical cases, make secure donations, engage volunteers, and ensure transparency.
- Technologies: PHP, Bootstrap, MySQL
- Source: [source code](#)

## Projects cont.

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### Pastry Shop Website

2024

- Overview: Created a responsive and visually appealing front-end project using CSS and React components.
- Technologies: React, Vite, CSS
- Source: [source code](#)

### Travel website (TourGuide)

2024

- Overview: Developed a travel website that includes user-friendly home page, an informative destination page, a convenient hotel page, and an up to date news page
- Technologies: PHP, Bootstrap, MySQL

## Skills

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- Programming Languages: PHP | Java | JavaScript | C | Python
- Web Technologies: HTML5 | CSS3 | Bootstrap | Node.js | Next.js | Spring Boot
- Databases: MySQL | MongoDB | PostgreSQL
- Tools & IDEs: VS Code | Eclipse | IntelliJ IDEA | NetBeans | Git
- Operating Systems: Windows | Linux
- Soft Skills: Communication | Teamwork | Problem-Solving | Adaptability | Analytical Thinking | Time Management | Continuous Learning | Attention to Detail | Collaboration in Agile Environments

## Certifications

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- Spring Framework for Java Development ([certificate](#) on SkillUp, Coursera)
- Developing Back-End Apps with Node.js and Express ([certificate](#) on IBM, Coursera)
- Agile Software Development ([certificate](#) on LinkedIn Learning)
- AI/ML Engineer Stage 1 ([certificate](#) on SLIIT)
- Develop Generative AI Applications ([certificate](#) on IBM, Coursera)
- Build RAG Applications ([certificate](#) on IBM, Coursera)
- Generative AI: Prompt Engineering Basics ([certificate](#) on IBM, Coursera)
- Learning Docker ([certificate](#) on LinkedIn Learning)
- Python Django Basics (rathank.com)
- Front-End Web Development (CODL, University of Moratuwa)
- Python for beginners (CODL, University of Moratuwa)
- Web Design for Beginners (CODL, University of Moratuwa)

## Achievements

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- Dean's List 2023-2024
- Winners-SHECODERess v6.0 (Hack & Design Showdown). 2025

## Volunteering

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- **UWU EXPO -Uva Wellassa University of Sri Lanka** 2025  
Collaborated with a team of volunteers, supporting event activities and contributed to the Marker-Based AR project showcased at the event.
- **Pillam(Outreach Program)-Rotaract club, Uva Wellassa University of Sri Lanka** 2023  
Contributed to a school outreach event focused on improving students' skills and engagement while strengthening my teamwork and communication abilities.

## References

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**Ms. Ayesha Chathurangi**

Lecturer (Probationary)

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