










# THARUSHI DE SILVA

THIRD YEAR UNDERGRADUATE AT UNIVERSITY OF MORATUWA

## ABOUT ME

I am a motivated IT undergraduate with a keen interest in Software Engineering and UI/UX design. I am currently pursuing a BSc (Hons) in Information Technology at the Faculty of IT, University of Moratuwa. I enjoy blending creativity with technology to build meaningful user experiences and efficient systems. Alongside these interests, I am also curious about Artificial Intelligence and enthusiastic about exploring its real-world applications. I'm eager to grow through hands-on projects and contribute to innovative, impactful solutions.

## CONTACT INFORMATION

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-  [My Personal Portfolio](#)
-  [GitHub](#)
-  [HackerRank](#)
-  [Medium](#)

## EDUCATION

### BSc.(Hons) in Information Technology

University of Moratuwa  
Faculty of Information Technology  
2023 – Present

### G.C.E Advanced Level Examination

Lyceum International School (Nuwara Eliya)  
Combined Mathematics | Physics | ICT  
2019-2021

### G.C.E Ordinary Level Examination

N/ Good Shepherd Balika Maha Vidyalaya  
2011-2020

## PROJECTS

### Embula

● Ongoing

- **Tech Stack:** Next.js | Tailwind CSS | SpringBoot | MongoDB

An website for a restaurant that offers a smooth and interactive user experience. The system includes user authentication, a product catalog, shopping cart, and payment processing. An AI chatbot is also integrated to improve the customer interaction.

### PresCrypt

2024-2025

- **Tech Stack:** ASP.NET Core (.NET 8) | Next.js | MS SQL | Python Flask
- [GitHub Repo](#)

PresCrypt is a Doctor Patient Management System that connects patients, doctors for managing health records, appointments, prescriptions, real-time communication, chatbot assistance.

- **My Role:** Authentication and Authorization, AI Chatbot and Health Data Access Control.

### My Portfolio

2025

- **Tech Stack:** Next.js | TailwindCSS | ASP.NET Core
- [GitHub Repo](#)
- [Portfolio Link](#)

A responsive personal portfolio to showcase my projects, skills, achievements and also serves as a professional profile.

### Water Tank Cleaning System

2024

- **Tech Stack:** Arduino | C++

An automated water tank cleaning system to replace manual cleaning and ensure safe water use. It featured rotating brushes, sensors, and water pumps controlled by Arduino and ESP32 Microcontroller.

### FlagX

2024

- **Tech Stack:** React | Ballerina | MongoDB

FlagX is a premium smartphone comparison platform that helps users easily compare flagship smartphones with real-time data and launch updates. It offers a smooth experience with live device comparisons and updates from official sources.

# Technical Skills

## FRONTEND DEVELOPMENT

- Next.js
- Tailwind CSS
- Material UI
- Node.js
- React.js
- HTML
- CSS

## BACKEND DEVELOPMENT

- ASP.NET 8
- Flask
- PHP
- Spring Boot (Beginner)

## PROGRAMMING LANGUAGES

- C
- C#
- Java
- JavaScript
- Python

## DATABASE MANAGEMENT

- MSSQL
- MySQL
- SQLite
- MongoDB (Beginner)

## VERSION CONTROL

- Git
- GitHub

## DEVELOPMENT TOOLS

- Visual Studio
- VS Code
- Postman

## AI & CHATBOT INTEGRATION

- Google Gemini API
- NLP Basics (Beginner)

## DESIGN & PROTOTYPING

- Figma

# REFERENCES

### Mr. Kugathasan Shanjeeva

Technical Lead | Creative Software  
+94 77 378 4047  
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### Mr. Kasun Chathuranga

Senior Software Engineer | Creative Software  
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### Ms. M.N. Chandimali

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## Capstone Project

2023

- Tech Stack: Angular | Node.js | Express.js | SQLite
- [GitHub Repo](#)

This is a School Information Management System that supported full CRUD operations for managing teacher and student data.

## ACHIEVEMENTS

- 2nd Runner up of J'PURAXTREME Hackathon 0.1
- Selected for Finalists of UOJ Coders.
- 6<sup>th</sup> place in INTECS CODERUSH 2024.
- Selected for Finalists in CodeJam by CSE 2025.
- Outstanding volunteer of IEEE WIE for month November.
- Selected for the 2<sup>nd</sup> round of the InterfaceX Designathon 2025 powered by ASTA.
- Participant of INTECS CODERUSH 2023.
- Participated in IEEE Xtreme 18.0 Programming Competition.

## VOLUNTEERING & LEADERSHIP

### Leadership & Event Coordination

- Event Co-Chair, Project ENGINEITY 2.0  
IEEE WIE Student Branch Affinity Group, UOM
  - Coordinated a long-term technical event series.
  - Collaborated with industry experts for knowledge-sharing sessions.
  - Led planning, team coordination, and task delegation.

### Other Contributions

- Delegate Handling Committee Member: Innovate with Ballerina
- Programme & Technical Committee Member: IEEE Xtreme 18.0 and Mora Xtreme 9.0
- Design Committee Member: Computer Society IEEE SB UOM.
- Design Committee Member: IEEE (RAS) SB UOM.
- Design Committee Member: XpertsMora'24 BY IEEE IAS UOM.
- Design Committee Member: IEEE WIE UOM.
- Publicity Committee Member: Octwave 2.0 by IEEE IAS UOM.
- Editorial Committee Member: IEEE TEMS UOM.
- Team Member, MARCOM Team AIESEC in Sri Lanka.
- Member of IT Faculty Orchestra "FIT Tunes".

## SKILLS

- Collaboration and Communication.
- leadership and team coordination.
- Time Management and Multitasking.
- Problem Solving and Debugging.
- UI/UX Design Thinking.
- Secure code practices.

## INTERESTS

- Travelling
- Playing Guitar
- Volunteering
- Doing Exercises