

# THARUSHA RAYAN

Undergraduate of University of Moratuwa



## PROFILE

A motivated and detail-oriented undergraduate with a strong interest in software engineering and modern web technologies. I have a solid foundation in programming and problem-solving, with hands-on experience in building web applications and learning new technologies independently. I am seeking a software engineering internship where I can apply my technical skills, gain industry exposure, and contribute to impactful and innovative solutions while continuously developing as a professional.

## EDUCATION

### Bachelor of Science Honors in Information Technology

- University of Moratuwa, Sri Lanka | 2023 – Present | CGPA: 3.38

### Advanced Level Examination

- St. Mary's College Chilaw | 2021
  - Combined Mathematics, Physics, ICT | Z - score : 1.48

## WORK EXPERIENCE

### Data Entry Specialist

- Trader Promoters (Pvt) Ltd. | 2025

### Assistant Technician

- Kumara Electronics | 2022 - 2023

## PROJECTS

### Tea Factory Supply Chain Management System

Full-stack enterprise application for tea factory operations. Developed a comprehensive web platform with role-based access control for multiple user types (Admin, Transport Administrator, Floor Manager, Finance Manager). Implemented modules for green leaf collection, transportation logistics, payment processing, supplier management, and real-time analytics. Features include interactive dashboards with data visualizations, map-based route tracking, advance/debt management, quality grading, cost analysis, and comprehensive reporting

- Technologies: Angular, ASP.NET Core, MSSQL, Google Map, Chart.js

### Shop Mart - E-commerce Application

Full-stack e-commerce platform built with secure authentication, role-based dashboards (admin/seller/buyer), shopping cart, order tracking, product reviews, and real-time messaging. Implemented RESTful APIs, JWT authentication, and responsive UI design.

- Technologies: MERN Stack (MongoDB, Express.js, React.js, Node.js)

### Edu Learn - E-Learning System

Developed a full-stack online learning platform implemented with role-based access control for Admin, Teacher, and Student users. The system features JWT authentication, course management with material uploads, real-time progress tracking, assignments, quizzes and certificate generation. Built with a responsive UI and comprehensive CRUD operations and RESTful API design with Swagger documentation.

- Technologies: Angular, ASP.NET Core, SQL Server

## TECHNICAL SKILLS

### Programming

- C
- Java
- Python
- PHP
- C#

### Frontend

- React JS
- Angular
- HTML
- CSS
- SCSS

### Backend

- Node
- ExpressJS
- ASP.NET

### UI/UX Design

- Figma

### Database

- MSSQL
- Postgresql
- MongoDB
- Firebase

## Version Controlling

- Git
- Github

## Operating Systems

- Ubuntu

## Additional skills

### Music

- Bass Guitar
- Lead Guitar
- Rythem

### Sports

- Football
- Cricket
- Chess

### Soft Skills

- Leadership
- Problem solving
- Critical Thinking
- Team work

## REFERENCE

### Ms. Roshani Wijesuriya

Department of IT  
Faculty of IT  
University of Moratuwa  
[wijesuriyar@uom.com](mailto:wijesuriyar@uom.com)  
+94 719882759

### Ravin Fernando

Software Engineer  
IFS(Poka)  
[ravindulanjana@gmail.com](mailto:ravindulanjana@gmail.com) +94 713227789

## PROJECTS (Cont'd)

### Autocare 360 - Automobile Service Management

Vehicle service platform with appointment booking, real-time tracking, and automated notifications, Integrated AI chatbot, employee time logging, and comprehensive RESTful APIs with test coverage

- Technologies: Spring boot, React, Fast API

### Neuro Nest – Microcontroller-Based Application

Designed and developed an interactive game box with memory and reaction games to enhance children's cognitive skills, featuring fingerprint login, safety auto-pause, and real-time feedback. Built a companion MERN web app for progress tracking, user management, and performance reports.

- Technologies: Arduino Mega,Nodemcu , MERN,Fingerprint senosr

### Dextron: Line Following Car Project

Developed an autonomous line-following robot for the NDT Dextron competition using sensors, embedded programming, and PID control for optimized speed and accuracy. Successfully competed, gaining hands-on experience in robotics, control systems, and teamwork.

- Technologies: Esp 32, IR sensors , PID

## CO-CURRICULAR & EXTRACURRICULAR ACTIVITIES

### Robotic/IOT Session Mentor

- IES Labs Faculty of Information Technology | University of Moratuwa
  - Mentoring School students in robotics and IoT projects, providing guidance on embedded systems. Conducting training sessions on Arduino programming, circuit design, and sensor integratio

### Assistant Treasurer

- Catholic Student Movement |University of Moratuwa

### Director of Facilitate

- Classical Music Society | University of Moratuwa
  - Played major events: Yathra, Binara Pedura, Yaye Pedura, and Coffee With Dean. Performed as bass and rhythm guitarist in university concerts

### Unit Representative

- Sri Lanka University Catholic Student Movement (All Universities)
  - Representing student interests and coordinating activities across all universities in Sri Lanka

### Organizing Committe

- Organized FIT Future Career, Prathihari, Rotaract Career Fair, and CSM Main Charity events.Coordinated logistics, participant management, and event execution for university programs