

NIRASHA DE MEL

Software Engineering Intern

📍 71/B, Peragolla Udaperadeniya

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PROFILE

Passionate and skilled third-year IT undergraduate dedicated to working smart and achieving goals with a focus on developing innovative solutions that create real-world impact. A responsible team player with strong leadership qualities, adaptability, and problem-solving abilities. Seeking an opportunity as a software engineering intern to enhance technical expertise while contributing to meaningful projects in a dynamic environment.

EDUCATION

University of Moratuwa

2022 - Present

- B.Sc. (Hons) in Information Technology - Current GPA: 3.53

Hillwood College Kandy

2012 - 2019

- G.C.E A/L: Physical Science Stream - BBB - Z Score: 1.5934

SKILLS

Technical Skills

Web Development

HTML | CSS | JavaScript | Tailwind CSS | Next.js | React.js |
Springboot | Three.js

UI/UX Design

Figma

Project Management

Trello

Programming Languages

C | Java | TypeScript

Database

MongoDB | MySQL | PostgreSQL

Other

REST APIs | Agile | Stripe Payment Integration | IoT | Arduino

Soft Skills

Leadership

Adaptability

Teamwork

Problem solving

PROJECTS

Salon Booking System

2024 - 2025

Second Year Software Project

Designed and implemented a robust salon booking system.

My Contribution:

- Developed client booking flow with Stripe payment integration
- Enabled clients to book, reschedule, and cancel appointments online
- Built salon owner dashboard to view, cancel appointments, analyze payments, and create bills

Role: Full Stack Developer

Technologies: Next.js, React, MongoDB

SafeRoute - Road Safety & Hazard Reporting Platform

2025

A comprehensive platform for real-time hazard reporting and intelligent route analysis. Key features include GPS-based hazard reporting with photo uploads, proximity-based hazard detection (25 m accuracy), smart route planning, user authentication, and real-time visualization of color-coded safety alerts to enhance community-driven road safety.

Role: Full Stack Developer

Technologies: React/Next.js, TypeScript, Tailwind CSS, Ballerina, PostgreSQL, Google Maps API, JWT Authentication

AI-Powered Fitness Web App (Individual project)

Ongoing

The AI-powered fitness web app enables secure user management, activity tracking, and personalized health recommendations. Built with a microservices architecture using Spring Boot and React, it integrates Keycloak for authentication, RabbitMQ for AI event processing, and Google Gemini for intelligent fitness insights.

Technologies: Spring Boot, React, Keycloak, RabbitMQ, Google Gemini API, PostgreSQL, MongoDB

Automobile Service Management System

2025

Designed and implemented a full-stack automobile service management application.

My Contribution:

- Developed a customer dashboard using React with features for service booking, modification requests, and real-time progress tracking, integrating a generative AI-powered chatbot for customers to check available service slots.

Role: Full Stack Developer

Technologies: React, Node.js, Express.js, MongoDB

Aquatica – Automated Home Aquarium Management System

2023-2024

First Year Hardware Project - Microcontroller Based Application Development

Designed and developed an automated system to manage aquarium tasks such as water monitoring (temperature), water clarity management (automatically refilling water when clarity drops below a set threshold), scheduled fish feeding, and day-night light cycles.

Real-time updates provided via a connected mobile app.

Technologies: C++ (Arduino), IoT, Mobile App

CERTIFICATIONS & ACHIVEMENTS

- AlgoXplore 1.0 – HackathonHub (2024): Participated in an algorithm and CTF challenge
- Xcelerate – SpiritX 2025 (MoraSpirit 360): Competed in an inter-university development competition as part of Team Codelyoko
- Ballerina Coding Challenge (IEEE & WSO2, 2024): Explored innovative solutions using the Ballerina language

EXTRACURRICULARS & INTERESTS

- Badminton player at the university level
- Organizing committee member at Monster Mash, Rotaract Club, University of Moratuwa
- Organizing committee member of World Peace Day Virtual Debate, Rotaract Club, University of Moratuwa

REFERENCES

Dr. Supunmali Ahangama

Senior lecturer, University of Moratuwa

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Mr. Avishka Indula Rajapaksha

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