

# RAVINDU LAYANGA

## Software Engineer

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**GitHub:** github.com/RavinduLayanga

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**Portfolio:** ravindulayanga.github.io

Software Engineer with a BSc (Hons) in Computer Science and hands-on industry experience gained through an industrial internship. Skilled in building backend systems, full-stack web applications, and RESTful APIs, with a strong focus on clean, maintainable code and problem-solving. Motivated by continuous learning and professional growth.

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript (ES6), PHP
- **Web Development:** HTML5, CSS3, Tailwind CSS, Bootstrap
- **Frameworks & Libraries:** Vue.js, Flask, CodeIgniter 4, Machine Learning Pipelines
- **Databases:** MySQL, SQL Server
- **Tools:** Git, GitHub, Postman, VS Code, IntelliJ IDEA
- **Development Practices:** Object-Oriented Programming (OOP), RESTful APIs, MVC Architecture, Clean Code & Debugging

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern - CodeOne-X (JFS ICT Services Pvt Ltd)

Oct 2023 - Sep 2024

- Developed and maintained production-ready web applications using CodeIgniter 4, implementing RESTful APIs and backend business logic.
- Built a Human Resource Management System (HRMS) using CodeIgniter 4 and Bootstrap 5, supporting employee records and internal workflows.
- Worked on a legacy Job Application Management System built with CodeIgniter 2, performing bug fixes, module enhancements, and controlled refactoring for improved stability and maintainability.
- Designed and maintained database-driven systems using MySQL and SQL Server, including schema updates, query optimization, and CRUD operations.
- Developed frontend components using Vue.js, Tailwind CSS, and Bootstrap, ensuring responsive and user-friendly interfaces.
- Developed and maintained WordPress-based corporate websites, including custom pages, performance optimization, SEO improvements, and security updates.
- Collaborated with senior engineers through code reviews, debugging, and iterative feature development, following clean coding practices.

## EDUCATION

**BSc (Hons) Computer Science - Upper Second Class Honours**

**2022 - 2025**

University of Westminster, UK (Informatics Institute of Technology, Sri Lanka)

## SELECTED PROJECTS

### MixCap - Multimodal Captioning System

*Final Year Research Project*

- Developed a novel deep learning model that fuses visual and textual data to generate accurate video captions.

- Built and deployed a full-stack web interface using React and Flask, allowing users to interact with the model via a RESTful API in real-time.

**Technologies:** Python, PyTorch, Flask, REST APIs, Multimodal Deep Learning

### **Skin Consultation Management System**

*Java OOP Coursework Project*

- Built a Java-based skin consultation management system to manage doctors, patients, and consultation records using OOP with console and Swing-based GUIs.

**Technologies:** Java, Java Swing, Object-Oriented Programming

### **Hybrid Employee Attrition Predictor**

*Machine Learning Project*

- Engineered a high-accuracy machine learning pipeline to predict employee turnover, utilizing SMOTE for data balancing and extensive feature engineering to optimize performance on real-world HR datasets.

**Technologies:** Python, Scikit-learn, Machine Learning, Data Analysis

### **Fuel Management System**

*Java OOP Coursework Project*

- Developed a Java-based fuel management application using object-oriented programming to manage client and queue-related data.

**Technologies:** Java, JavaFX, Object-Oriented Programming

### **Personal Portfolio Website**

*Individual Project*

- Designed and developed a responsive personal portfolio to showcase projects, skills, and experience, focusing on clean UI and maintainable structure.

**Technologies:** HTML, CSS, JavaScript, Tailwind CSS

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## **COMPETITIONS**

- **Finalist (Top 7)** - Haxmas 2023 intra-university hackathon
  - **Participant** - Microsoft Imagine Cup 2023
  - **Competitor** - CodeSprint 7.0, IEEE IIT
  - **Participant** - Google Hash Code 2022
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## **EXTRACURRICULAR ACTIVITIES**

- **IEEE Computer Society, IIT** - Organizing Team Member (IndustPro 2.0) & Volunteer.
  - **Rotaract Club of IIT** - Interactors In-Charge (Trailblazer '22)/ General Volunteer (Parallax '22).
  - **Mozilla Campus Club, IIT** - Media Team Volunteer (OpenHack '22).
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## **REFERENCES**

### **Mr. Ushan Sankalpa**

Full Stack Software Engineer, Coullax (Pvt) Ltd

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### **Mrs.Guwani Madusha**

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