

LAKKHEE WARANGANA

Undergraduate Software Engineering Student | Mobile & Software Developer

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PROFESSIONAL SUMMARY

Undergraduate Software Engineering student with hands-on experience in React Native, C#, .NET, SQL Server, and full-stack application development. Developed mobile, desktop, and web-based systems including an AI-powered sports training application, transport management system, and payroll system. Strong foundation in object-oriented programming, database design, REST APIs, and Agile development, with a focus on automation, performance, and usability.

EDUCATION

BEng (Hons) Software Engineering	Feb 2025 - Present
London Metropolitan University	
Pearson BTEC HND in COM-SE	Sep 2023 - Feb 2025
Esoft Metro Campus	
Diploma in Information Technology	2023
Esoft Metro Campus	
Diploma in English	2023
Esoft Metro Campus	

TECHNICAL SKILLS

- Languages:** JavaScript, C#, Java, Python (Basic), PHP, SQL
- Frameworks & Tools:** React Native, .NET, FastAPI, Windows Forms
- Databases:** MS SQL Server, MongoDB
- Concepts:** OOP, CRUD Operations, REST APIs, MVC Architecture, Database Design
- Other:** UI/UX Design, Computer Vision (Pose Estimation), Agile/Scrum

LANGUAGES

- Sinhala – Native
- English – Good
- Tamil – Basic

PROJECT EXPERIENCE

AI-Powered Badminton Training Application – SmashPro

React Native | FastAPI | Computer Vision

- Developed a mobile application that analyzes badminton player movements in real time using computer vision and pose estimation
- Implemented motion tracking algorithms to evaluate player techniques and posture accuracy
- Delivered automated feedback and personalized coaching insights, improving skill analysis effectiveness
- Designed a mobile-friendly UI for smooth performance review and usability

e-Shift Transport Management System

C# | .NET Windows Forms | MS SQL Server

- Built a desktop-based transport management system to manage jobs, customers, vehicles, and loads
- Implemented job assignment, status tracking, and transport unit allocation, reducing manual scheduling errors
- Designed a relational database schema to support job and load operations efficiently
- Applied layered architecture and repository pattern for maintainable code

Payroll Management System – Grifindo Toys

C# | MS SQL Server

- Developed a payroll system handling employee records, salary calculations, and payroll reports
- Automated tax calculations and salary processing for 50+ employees
- Improved payroll accuracy and significantly reduced manual processing time

Freelance Photographer Website – Malcolm Lismore

HTML | CSS | JavaScript | PHP

- Designed and developed a responsive portfolio website to showcase photography services
- Implemented an enquiry form to manage customer booking requests
- Structured the system for future gallery expansion and feature scalability

Database System – Quiet Attic Films

Database Design | MS SQL | C#

- Designed a database system to manage film productions, clients, locations, and staff
- Improved data organization and tracking efficiency for multiple concurrent productions