

Thushan Madarasinghe

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PROFILE

Motivated Computer Science undergraduate at IIT with hands-on experience in full-stack development. Proficient in **Java, JavaScript, React Native, React.js, Node.js, Express.js, MongoDB**, and **MySQL**. Well-versed in core computer science concepts, including **Algorithms, Data Structures**, and **Object-Oriented Programming (OOP)**. Passionate about building user-focused solutions and eager to contribute to impactful projects through an internship opportunity.

EDUCATION

- Bsc.(Hons)Computer Science, **University of Westminster,UK (IIT)**
2023 – 2027
 - Advanced Level, **Richmond College Galle**.
Galle, Sri Lanka
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PROJECT EXPERIENCE

Govishakthi

Developing an AI-driven mobile app using the MERN stack to help farmers respond to price drops with value-added product ideas.

Role: **Front-End Lead (React Native)** with backend support (Node.js, Express.js)

Tech Stack: **React Native · Node.js · Express.js · MongoDB · LLM-based Analysis**

GitHub repo:[govi-shakthi-central](#)

Fin Track

Personal Finance Tracker for any user

Developed a full-stack finance management app using **React, Node.js, Express**, and **MongoDB**. Features include user authentication (JWT), income/expense tracking, transaction categorization, budget insights, and data visualization. Implemented secure practices like password hashing and input validation. Designed a responsive UI with real-time analytics and charts.

GitHub repo: [FINTRACK](#)

Weather Forecast App

Built a cross-platform mobile app using React Native to provide real-time weather updates. Integrated with a public Weather API to fetch current conditions, forecasts, and location-based weather data. Designed a clean, responsive UI with intuitive navigation for a seamless user experience.

Tech Stack: React Native · **REST API · Axios · Expo · OpenWeatherMap API**

Student Progression Outcome Tracker

Developed a Student Progression Outcome Tracker in Python that categorizes outcomes (Progress, Trailer, Retriever, Exclude), saves them to a text file, and provides a visual histogram preview to help users quickly assess student status.

Tech Stack: **Python, graphics.py**

GitHub Repository: [Student Progression Outcome Tracker](#)

Real-Time Ticketing Platform

Built a real-time ticketing system using Node.js worker threads and the producer-consumer pattern to prevent overselling during concurrent sales. Integrated WebSockets for live ticket tracking and developed a React.js dashboard with interactive analytics.

Tech Stack: **Node.js · React.js · WebSockets · REST API**. Producer-Consumer Pattern

GitHub Repository: [Real-Time Event TicketingSystem](#)

Plane-Management

Developed a **Java-based** console application for managing flight seat reservations as part of my university coursework. The system allows real-time seat booking, cancellations, and ticket tracking, with search functionality for seat details and reporting features. Implemented robust error handling and input validation to ensure a smooth user experience.

GitHub: [Plane Management System Repository](#)

KEY COMPETENCIES

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|--------------------------|---------------------------------|
| • Front-End Technologies | React, HTML5 and CSS3 |
| • Back-End Technologies | Node.Js, Express.Js |
| • Development Languages | Java, Python, JavaScript |
| • Mobile App Development | React Native |
| • DataBase Technologies | MySQL, MongoDB |
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INTERMEDIATE SKILLS

- Able to communicate effectively with others
 - Open to new ideas and willing to learn new ways of doing things
 - Independent and self-reliant, but also a team player
 - A flexible mindset for workplace flexibility
 - Able to lead a team and work well in a team
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EXTRACURRICULAR ACTIVITIES

President, Richmond College Photographic Society
2023/2024

Senior Crew Member, Richmond Live
2022 - Present

Volunteer IEEE Computer Society IIT
2023 - Present

Volunteer Cutting Edge IIT
2023 - Present

Committee Member - Richmond College IT Society
2022/2023

Member IEEE Student branch IIT
2023 - Present

St.John Ambulance , Richmond College
2014-2021

REFEREES

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