

Thushan Madarasinghe

+94 70 392 1791

github.com/ThushanMadu

thushanmadu.me

thushanmadu2003@gmail.com [linkedin.com/in/thusha-madarasinghe](https://www.linkedin.com/in/thusha-madarasinghe)

PROFILE

Motivated Computer Science undergraduate at IIT with hands-on experience in full-stack development. Proficient in Java, JavaScript, ReactNative, React.js, Node.js, Express.js, MongoDB, and MySQL. 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
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

- **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

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

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

Suneth De Soyza,
Engineering Manager,
Mad Mobile,
Email:suneth.desoyza@madmobile.com
Tel: [+94 77 330 8503](tel:+94773308503)

Rasanjalee Rathnayake,
Lecturer,
School of Computing,
Informatics Institute of Technology,
Sri Lanka.
Email:sandunika.r@iit.ac.lk
Tel: +94 74 244 3301