

THEVAMBIKAI THEVAPALAN

Intern Software Engineering

@ thevithevapalan@gmail.com

+94769943828

Thevambikai Thevapalan

Thevambikai Thevapalan

Thevambikai

ABOUT ME

- As a computer engineering student, I am passionate about software engineering, cybersecurity, and software development. I possess a strong theoretical foundation and practical skills in these areas, gained through coursework and hands-on projects. I am eager to apply my knowledge to real world challenges, contribute to innovative solutions, and continuously enhance my skills in a dynamic and rewarding work environment.

EDUCATION

BScEngHons in COMPUTER ENGINEERING
University Of Peradeniya
GPA:3.50/4

(June2021–Present)

G.C.E. ADVANCED LEVEL EXAMINATION- 2AB

(August 2019)

PROJECTS

🔗 Automated Grass Cutter

- GROUP
- The Automated Grass Cutter is a mobile app-controlled robot designed for automated lawn mowing. With the "Lawn Mate" app, users can control and monitor the robot's status, ensuring efficient and convenient lawn maintenance.
- **Contribution :** Developed a mobile application using React Native CLI with a focus on designing UI for improved UX. Integrated the Bluetooth HC05 module to control device movement in the grass cutter project, leveraging Bluetooth Serial library functionalities for precise control.
- **Technology:** ReactNative, AWS Cognito, AWS EC2 instance

🔗 Crop modelling tool for Sri Lanka agriculture

- GROUP
- Crop Management Companion CROPLANKA, an indispensable decision support tool for crop management in Sri Lanka. Leveraging over a decade of comprehensive data analysis, empower farmers to make informed choices for their crops. Our platform allows users to explore various management options, simulate outcomes through graphs, and utilize a wealth of climate data to thrive in Sri Lanka's dynamic farming environment.
- **Contribution :** Developed a web application using HTML, PHP, CSS, and JavaScript for a crop modeling tool, following Agile methodology to ensure efficient development and continuous improvement. Utilized Python for plotting results as plots for users. Integrated APSIM software to collect data based on user inputs, stored the data in MySQL database, and implemented functionality to retrieve and display it in the web application.

🔗 Library Management System Web Application

- GROUP
- The Library Management System web app streamlines librarian tasks, enabling efficient management of borrowing details, book history, and book availability for users. It offers librarians a centralized platform to track borrowing records, manage book histories, and provide real-time updates on available books for users.
- **Contribution :** Developed a Web application using HTML ,PHP ,CSS

🔗 School Attendance Management System

- GROUP
- The school attendance management system is a web-based application that helps schools manage student attendance records. The system allows administrators to create classes and assign teachers, manage student details, and mark attendance. Parents and guardians can also use the system to view their child's attendance records and add notes for absences.
- Developed the frontend for a web application using React and contributed to the backend using Spring. Implemented Spring Boot to send emails to parents regarding student attendance status. Additionally, display students' attendance status using plots within the web application.
- **Technologies :** React, Spring, Postman, MySQL

🔗 Mona Dashboard for Mold Protector

- GROUP (External Project)
- The Mona Dashboard is a real-time status dashboard for mold protector machines in factories. It enables efficient monitoring and reporting for factory operators. This web application tracks machine performance, aiding in smooth operations.
- Developed the frontend for a web application using React and implemented real-time machine status change in the backend using a socket.io client-server model. Utilized MongoDB to store machine details in the database after updating data.
- Technologies : React, Node.js, Socketio

VOLUNTEER PROJECT

🔗 Digitalized Action Plan Tracking System for the University of Peradeniya

- Contributed significantly to the development of a digitalized action plan tracking system for the University of Peradeniya, focusing on UI design and leveraging PHP, HTML, and CSS for robust implementation.

SKILLS

Languages - Python C/C++ Java SQL JavaScript MATLAB

Frameworks - Spring Boot React Native Bootstrap Django

Libraries - ReactJS OpenCV NumPy Matplotlib Pandas TensorFlow

Developer Tools - Git AWS Docker

RELEVANT COURSE WORK

Software Engineering Machine Learning Operating Systems Data structures and Algorithms
Network Security Database Systems Programming Methodology Computer Networks

LANGUAGES

English-Professional working proficiency

Tamil-Native proficiency

Sinhala-Elementary proficiency

CERTIFICATIONS

- 🔗 Neural Networks and Deep Learning
- 🔗 Web Development in React.js
- 🔗 Machine Learning with Python
- 🔗 Programming for Everybody (Python)
- 🔗 Introduction to Structured Query Language
- 🔗 Java Programming
- 🔗 Introduction to Cyber Security
- 🔗 Introduction to Artificial Intelligence

REFERENCES

Prof. Roshan G. Ragel
HEAD OF DEPARTMENT
DEPARTMENT OF COMPUTER ENGINEERING
@ University Of Peradeniya
✉ roshanr@eng.pdn.ac.lk

Dr. Upul Jayasinghe
Senior Lecturer
DEPARTMENT OF COMPUTER ENGINEERING
@ University Of Peradeniya
✉ upuljm@eng.pdn.ac.lk