

# PIYAMANTHA WEERASINGHE

## Software Engineering Graduated



piyamanthasandaruwan000@gmail.com



[Portfolio](#)



0783026525



[Linkedin](#)



[GitHub](#)



Kandegedar, Pattiyakubura, Lunuwaththa

---

## EDUCATION

**BSc (Hons) in Software Engineering** (Second Upper Division) 2023 - 2024  
Cardiff Metropolitan University

**HD in Software Engineering** (Second Lower Division) 2020 - 2022  
ICBT campus

**Welimada Central Collage** 2011 - 2018

---

## PROJECTS

**Stress Detection Web Project** [Git Hub Link](#) Sep - 2024

- Tech Stack: React.js, Node.js, Express.js, MongoDB, Python (Machine Learning), Material-UI
- Developed a full-stack web application that predicts a user's stress level based on lifestyle and health-related data using a machine learning model.
- Integrated a trained ML model (via a pickle file) into the Node.js backend for real-time predictions.
- Built an interactive dashboard with form inputs for features like age, gender, sleep duration, BMI, heart rate, and daily steps.

**ABC Lab System** [Git Hub Link](#) April - 2024

- Tech Stack: HTML, CSS, Bootstrap, Spring Boot, MySQL
- Developed a web-based laboratory management system to automate and streamline day-to-day lab operations.
- Implemented the backend with Spring Boot, enabling efficient handling of business logic, RESTful APIs, and secure role-based authentication.
- Integrated MySQL for structured data storage, managing lab records, test results, and user details with high consistency.

**Portfolio Website** [Git Hub Link](#) january -2025

- Tech Stack: React.js, Tailwind CSS, JavaScript, React Icons, React Router
- Designed and developed a fully responsive personal portfolio website to showcase professional skills, projects, and resume
- Implemented a modern and interactive UI using React.js and Tailwind CSS, focusing on clean layout and user experience.
- Organized key sections including Home, About, Skills, Projects, Resume, and Contact with intuitive navigation using React Router.

**Portfolio Website** [Git Hub Link](#) May - 2025

- A fully responsive front-end e-commerce web application built using React.js and Tailwind CSS. This modern shopping platform features a clean and intuitive user interface, allowing users to explore products across multiple categories such as Men, Women, Kids, Accessories, and more.
-

## TECHNICAL SKILLS

- Programming Languages: Java, JavaScript, Python, HTML5,CSS3
  - Development Tools: Visual Studio Code, Eclipse, IntelliJ IDEA , Figma, spring tool
  - Web Development: HTML, CSS, React, Next
  - Database Management: MySQL , MongoDB
  - Version Control: Git
  - Software Development Methodologies: Agile, Scrum
  - Problem-Solving: Algorithms, Data Structures
  - Operating Systems: Windows , Mac
  - MERN stack
- 

## CERTIFICATES

### Version Control with Git [Link](#)

March - 2025

- Gained hands-on experience with Git, the industry-standard version control system used for tracking changes in source code during software development.
- Learned key Git concepts such as repositories, commits, branches, merges, and rebasing.
- Practiced collaboration workflows including pull requests, conflict resolution, and feature branching.

### Introduction to Database [Link](#)

March - 2025

- Acquired foundational knowledge of database systems, data modeling, and query languages essential for modern software development.
- Gained an understanding of relational database concepts including tables, keys, relationships, and normalization.
- Learned to write SQL queries to create, manipulate, and retrieve data from databases.

### Prompt Compressions and Query Optimization [Link](#)

March - 2025

- Gained in-depth knowledge of techniques used to enhance the efficiency of database queries and reduce data redundancy.
- Explored various query optimization strategies to improve performance in relational database systems.

### Advanced React [Link](#)

March - 2025

This course provided in-depth knowledge of advanced React concepts such as:

- Context API and Redux for efficient state management.
  - Custom Hooks and performance optimization techniques.
  - Code splitting and lazy loading.
  - Unit testing and integration testing using Jest and React Testing Library.
- 

## REFERENCE

Trarik Kanaka (Visiting Lecturer), ICBT Campus Bambalapitiya,  
[tharik.kanaka@gmail.com](mailto:tharik.kanaka@gmail.com)

Chathura Warnasuriya (Lecturer), ICBT Campus Bambalapitiya,  
[chathura@icbtcampus.edu.lk](mailto:chathura@icbtcampus.edu.lk)