



# PASAN SIRIWARDANA

Undergraduate

## About Me

Undergraduate Software Engineer with a solid background in programming, problem-solving, and software development. Passionate about creating efficient applications and contributing to impactful projects in a collaborative environment.

## Contact Information

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- [github.com/PasanSiriwardana](https://github.com/PasanSiriwardana)

## Languages

- English – Proficient
- Sinhala – Native

## Education

**Higher National Diploma in Software Engineering** 2024 - Present

National Institute of Business Management

**Diploma in Software Engineering** 2023 - 2024

National Institute of Business Management

**Certificate Course of Computer Science** 2022 - 2023

National Institute of Business Management

**British English Course** 2021

British English College

**Ordinary Level Exam** 2021

Mahinda Rajapaksa College Matara

## Technical Skills

### Frontend

- HTML
- CSS
- JavaScript

### Backend

- PHP
- Java

### Tools & Platforms

- XAMPP
- VS Code
- Figma

### Database Management

- MySQL

### Other

- UI/UX Design
- Responsive Design
- IoT Integration

## Soft Skills

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- Problem-Solving
- Team Collaboration
- Adaptability
- Time Management
- Attention to Detail
- Creative Thinking
- Communication Skills

## Extra Curriculum Activities

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- Scout Troop Member
- School cricket Team member
- Representing the Southern Province in the Collage Art Competition all island and winning the Southern Province title
- IEEE NIBM MATARA Branch Web Master

## Projects done

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### MediConnect Hub (Web Application)

- Built a complete healthcare platform to connect doctors and patients.
- Deigned using figma
- Developed using HTML, CSS, PHP, JavaScript, MySQL.
- Implemented features like user authentication, profile management, and real-time medical requirements tracking.

### Juice Bar Management System (Java)

- Designed a desktop application for managing orders, inventory, and billing for a juice bar.
- Used Java Swing for the GUI and MySQL for the database.
- Enabled data persistence and automatic invoice generation.

### Home Monitoring System (IoT)

- Developed a smart home monitoring system to track environmental conditions and enhance home safety.
- Integrated sensors for gas (MQ-7), temperature & humidity (DHT11), motion (PIR Sensor), and light detection.
- Built with Arduino Mega and displayed real-time data on a 16x2 LCD screen.
- Implemented an alert system to notify users of abnormal readings via sound and visual indicators.

## **Plant Disease Detection Robot (IoT)**

- Designed an automated robot for detecting plant diseases using sensor data and image processing.
- Utilized Arduino Mega for hardware control and connected sensors to analyze plant health.
- Developed a companion mobile app to display disease status and suggest remedies.
- Focused on improving agricultural efficiency with early disease detection and remote monitoring.

## **Inventory and user management system (Figma)**

- Designed using Figma
- Responsive and user friendly design
- Modern and decent design

## **References**

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### **Mr. Thilina**

Consultant / Lecturer at NIBM

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### **Ms. Nadeeshani**

Consultant / Lecturer at NIBM

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