



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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Languages

- English – Proficient
- Sinhala – Native

Education

<u>Higher National Diploma in Software Engineering</u>	2024 - Present
National Institute of Business Management	
<u>Diploma in Software Engineering</u>	2023 - 2024
National Institute of Business Management	
<u>Certificate Course of Computer Science</u>	2022 - 2023
National Institute of Business Management	
<u>British English Course</u>	2021
British English College	
<u>Ordinary Level Exam</u>	2021
Mahinda Rajapaksa College Matara	

Technical Skills

Frontend	Database Management
<ul style="list-style-type: none">HTMLCSSJavaScript	<ul style="list-style-type: none">MySQL
Backend	Other
<ul style="list-style-type: none">PHPJava	<ul style="list-style-type: none">UI/UX DesignResponsive DesignIoT Integration
Tools & Platforms	
<ul style="list-style-type: none">XAMPPVS CodeFigma	

Soft Skills

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

Extra Curriculum Activities

- 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

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

Mr. Thilina

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Ms. Nadeeshani

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