

# Y.M. Charuka Pathum

*IT Undergraduate & Biomedical Technology  
Researcher*

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## Education

- 2022–Present **B.Sc. (Hons) in Information Technology**, *University of Moratuwa*, Sri Lanka  
Specializing in Software Engineering and Systems Design.
- 2023–Present **Diploma in Biomedical Technology**, *GWUIM*, Sri Lanka  
Focusing on Medical Instrumentation, Clinical Engineering, and Bio-Signal Processing.

## Technical Skills

- Programming JavaScript (ES6+), React.js, Python, Java, C++  
Web Tech HTML5, CSS3, Tailwind CSS, Node.js, REST APIs  
Biomedical Biosensors, Medical Imaging Fundamentals, Arduino-based Medical Prototypes  
Tools Git/GitHub, VS Code, MATLAB, Proteus (Circuit Simulation)

## Experience (Academic Projects)

- 2024 **Smart Health Monitor**, *University Project*  
Developed a React-based dashboard that visualizes real-time heart rate data from an IoT sensor module.
- 2023 **Hospital Inventory System**, *Database Project*  
Designed a SQL-based system to manage biomedical equipment maintenance schedules and medical supplies.

## Honors & Awards

- University Dean's List - Semester 2 (University of Moratuwa)  
Competitions Top 10 Finalist in Health-Tech Hackathon 2023

## Languages

- English Professional Working Proficiency  
Sinhala Native

## Interests

- Research Bio-informatics, Artificial Intelligence in Diagnostics, Telemedicine  
Personal Open Source Contribution, Tech Blogging