

Y.M. Charuka Pathum

IT Undergraduate & Biomedical Technology
Researcher

University of Moratuwa
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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