

Seidh Abdullah Adahan

Undergraduate Biomedical Technology Student

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Location: Gampaha, Sri Lanka

Professional Summary

Biomedical Technology undergraduate with experience in prototyping medical devices, signal acquisition, and web development. Passionate about building low-cost, practical solutions for healthcare and collaborating on interdisciplinary research projects.

Education

BHSc (Hons) in Biomedical Technology — Gampaha Wickramarachchi University of Indigenous Medicine
2nd Year, relevant coursework: Biomedical Instrumentation, Digital Electronics, Signal Processing, Data Analysis

Experience

Student Research Assistant — Biomedical Lab

- Built low-cost biosignal acquisition circuits and sensor prototypes
- Collected and preprocessed physiological datasets for analysis
- Prepared lab reports and presentations for research groups

Freelance Projects — Web & Hardware

- Built responsive portfolio and web tools using React and TypeScript
- Prototyped microcontroller projects (Arduino/ESP32) for sensing and control

Selected Projects

Portable Heart Rate Monitor

Low-cost PPG-based monitor prototype with ESP32, data logging, and basic web dashboard.

Tech: ESP32, PPG sensor, Python, React

Prototype Respiratory Rate Detector

Experimental sensor using accelerometer and pressure sensing to estimate respiration rate.

Tech: Arduino, Accelerometer, Python

Portfolio Website

Responsive portfolio built with Vite, React, and TypeScript showcasing projects and contact form.

Tech: React, TypeScript, Vite, CSS

Skills & Certifications

Skills: Biomedical Instrumentation, Embedded C/Arduino, Python, React & TypeScript, Signal Processing, PCB Prototyping

Certifications

- Biomedical Basics (2023)
- Programming for Data Science (Python & R) (2022)

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