

Suryajith S

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SUMMARY

Passionate and detail-oriented postgraduate in Biomedical Engineering with a strong focus on research and innovation in healthcare technology. Skilled in developing real-time physiological monitoring systems, remote PPG-based vital sign detection, and emotion analysis using computer vision. Proficient in Python, OpenCV, and web technologies, with hands-on experience in building telemedicine platforms. Eager to contribute to RD teams focused on advancing biomedical solutions and improving patient outcomes through technology.

EDUCATION

NSS College of Engineering Palakkad

M Tech in Biomedical Engineering

KTU

Aug 2023 – Present

Government Engineering College Idukki

B Tech Information Technology

KTU

Aug 2016 – Oct 2020

PROJECTS

Vital sign Detection using rppg

Real time vital sign detection

December 2025 – Present

Python, Numpy, Scipy, OpenCV

- Vital sign detection using a webcam via rPPG technology
- Using libraries like open cv numpy and scipy for detection of different vital signs
- developed a web application for real time doctor patient monitoring

EXPERIENCE

Biomedical Engineer Intern

PIMS

June 2024 – December 2025

Palakkad, Kerala

- Assisted in the calibration and testing of biomedical equipment to ensure accurate performance
- proper documentation and logs of device status, maintenance, and repair activities.
- Supported the installation and setup of new medical devices across various hospital departments.
- Performed routine maintenance and troubleshooting of critical care equipment.

Web Development Intern

Infyplus

01 february 2021 – 01 february 2022

Nedumkandam Idukki

- Developed and maintained responsive web pages using HTML, CSS, and JavaScript.
- Assisted in frontend integration with backend APIs for dynamic content rendering
- Contributed to UI/UX improvements for enhanced user experience and accessibility
- Participated in code debugging and testing to ensure application stability.
- Worked with version control tools like Git and GitHub for collaborative development.
- and updated project documentation and user manuals for web systems..

PUBLICATIONS

- Successfully presented and accepted a conference paper on the project "Advanced Telemedicine Platform for Real-Time Vital Sign and Emotion Detection Using Remote PPG" at ICASET (International Conference on Advances in Science, Engineering and Technology)