

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 <i>M Tech in Biomedical Engineering</i>	KTU
Government Engineering College Idukki <i>B Tech Information Technolgy</i>	KTU Aug 2016 – Oct 2020

PROJECTS

Vital sign Detection using rppg <i>Real time vital sign detection</i>	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 <i>PIMS</i>	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 <i>Infyplus</i>	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)