

# SANDARUWAN ATHTHANAYAKA

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## SUMMARY

Final-year BSc in IT undergraduate at SLIIT with 1+ year of practical experience as a full-stack developer skilled in React, Node.js, Next.js, MongoDB, Flask, and Python. Experienced in designing and delivering web applications, with a passion for continuous learning and improving technical skills. Eager to build a career that bridges software development and project management by supporting project planning, risk management, and effective team collaboration while contributing to innovative technology solutions.

## WORK EXPERIENCE

### Intern Software Engineer at EWIS (Pvt) Ltd

Apr 2023 – Sep 2023

- **Full-Stack Web Development:** Designed and maintained web applications using the **MERN stack** (MongoDB, Express.js, React, Node.js), ensuring optimal performance and user experience.
- **Payment System Development:** Spearheaded the development of a **lecture payment portal**, handling both frontend interfaces and backend functionality to streamline fee processing.
- **Collaborative Problem-Solving:** Worked closely with UI/UX designers and QA teams to implement responsive designs and resolve system issues.
- **Code Optimization:** Debugged and refined Python and Java code to enhance application stability and efficiency.
- **IoT Integration:** Assisted in developing IoT-based smart features, contributing to hardware-software integration for training systems.

### Freelance at Fiverr

Jan 2024 - Present

- Designed and Developed Websites and Web applications on Fiverr.
- Team up with several friends to complete the projects.

## EDUCATION

- **BSc (Hons) in information Technology Specialized in Information Technology in SLIIT (Sri Lanka Institute of Information Technology)**
- **Sri Dharmaloka College Kelaniya**  
G.C.E Advanced Level (Biological Science Stream)  
G.C.E Ordinary Level

## PROJECTS

### Wearable IoT Health Monitor with ML-Driven Diagnostics System

**Technologies:** (Python | MERN Stack | Machine Learning | Blockchain | IoT)

- Designed and developed a wearable IoT device capable of continuously monitoring ECG, SpO<sub>2</sub>, and blood pressure in real-time for early detection of heart conditions.
- Implemented advanced Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) models to accurately detect potential diseases, incorporating robust noise reduction techniques to ensure reliable diagnostics.
- Pioneered a GPS-integrated emergency alert system, decreasing response times to critical health events by 30%, improving patient outcomes and enabling quicker medical intervention in cardiac emergencies.

Online Cloth Fitting System (4th Year)

Technologies: MERN Stack

- Designed and developed a fully responsive e-commerce web application featuring advanced virtual fitting capabilities to help users visualize garment sizes and styles before purchase.
- Implemented an intuitive size visualization tool and a seamless online purchasing system to enhance the overall shopping experience and reduce product return rates.

Tuition Class Management System (3rd Year)

Technologies: Spring Boot

- Developed a comprehensive web-based management system designed specifically for educational institutions to streamline daily administrative operations.
- Implemented key functionalities including secure student registration, flexible class scheduling, automated attendance tracking, integrated payment processing, and detailed reporting to support informed decision-making.

Pharmacy Management Mobile App

Technologies: Kotlin | Android Studio | Firebase

- Developed an Android app for managing pharmacy inventory and tracking prescriptions.
- Built features for searching medicines, setting dosage reminders, and sending refill alerts.
- Used Firebase for secure, real-time data updates across devices.

Online Car Rental System (2nd Year)

Technologies: Java (MVC Architecture)

- Designed and developed a desktop application that enables users to conveniently browse available vehicles and make online reservations with ease.
- Implemented robust booking management features along with secure payment processing to streamline rental operations and enhance user experience.

Homeland Management System (1st Year)

Technologies: HTML, CSS, PHP, JavaScript, MySQL

- Developed a web-based application designed to efficiently manage and maintain land ownership records for administrative purposes.
- Implemented key features such as owner registration, record updates, and comprehensive reporting to support accurate data management and decision-making.

CERTIFICATION

- Project Management Skills (aligned with PMI CAPM) University of Moratuwa, Open Learning Platform (2025)
- Full Stack Development Basics — University of Moratuwa, Open Learning Platform (2025)
- Cloud Computing Fundamentals — University of Moratuwa, Open Learning Platform (2025)
- User Experience (UX) Fundamentals — University of Moratuwa, Open Learning Platform (2025)
- Web Design for Beginners — University of Moratuwa, Open Learning Platform (2025)
- Python for Beginners — University of Moratuwa, Open Learning Platform (2025)

SKILLS

- **General:** Java, Python, TypeScript, C++
- **Frontend:** React, Angular, HTML, CSS, Tailwind CSS
- **Backend:** Node.js, Express.js, Spring Boot
- **Database:** MongoDB, MySQL
- **Tools & Platforms:** Git & GitHub, Firebase, CI/CD, Figma, Jira, Confluence
- **Project Management & Analysis:** Requirement Engineering (IIBA Best Practices), UML, BPMN, Agile & Scrum Fundamentals, Basic UI/UX Principles
- **Soft Skills:** Adaptability, Critical Thinking, Creativity, Attention to Detail, Communication, Teamwork, Collaboration, Problem-Solving

REFERENCE

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