

# SAKUNI SANDAKALMI

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## Profile Summary

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Final-year BSc (Hons) Software Engineering undergraduate with hands-on experience building full-stack web applications using the MERN stack (MongoDB, Express.js, React, and Node.js). Experienced in developing responsive user interfaces, designing RESTful APIs, and managing application data with MongoDB. Actively seeking a software engineering internship to apply MERN skills in building scalable, user-focused web applications.

## Education

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### Bachelor of Science (Hons) in Software Engineering

2024 – Expected Feb 2026

Java Institute for Advanced Technology, Sri Lanka

(Awarded by Birmingham City University)

- Explored advanced topics including Android application development, cybersecurity, and cyber law.
- Gained hands-on experience with secure software development practices, version control systems, and modern frameworks.
- Completed team-based projects and research-oriented coursework involving system design, debugging, and feature implementation.

### Higher National Diploma in Software Engineering

2021 – 2024

Java Institute for Advanced Technology, Sri Lanka

- Developed object-oriented programming skills using Java and JavaScript through coursework and practical exercises.
- Developed practical skills in full-stack development, REST API integration, and database management.
- Gained experience in software project management, quality assurance (QA), and agile-based team collaborations.

### G.C.E. Ordinary Level (O/L)

2018

Jayakody maha vidyalaya, Welipillewa

- Achieved 8 A's

## Project Experience

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### ElectroMart – Product Management End-to-End Application | *MERN Stack* **Live Demo** — Frontend — Backend

- **Technologies:** MongoDB, Express.js, React.js, Node.js, Clerk, Stripe
- Built a MERN-based product management system for an electronics store, implementing **10+ RESTful API endpoints** for product and category CRUD operations using sample data.
- Integrated authentication and role-based access control using Clerk, supporting admin and customer roles in a simulated environment.
- Integrated Stripe checkout to demonstrate secure and reusable backend payment APIs.

### Thread – Product Management End-to-End Application | *MERN Stack* **Live Demo** — Frontend — Backend

- **Technologies:** MongoDB, Express.js, React.js, Node.js, Clerk, Stripe
- Developed a responsive e-commerce web application for a clothing store with dynamic product listings and order management features.
- Implemented authentication-driven user flows with Clerk, enabling **\*\*secure login and protected routes\*\*** for users.
- Integrated Stripe-powered checkout with focus on frontend-backend integration for **\*\*demonstration of secure payment flow\*\***.

## Bookshelf – Product Management End-to-End Application |Android

Live Demo

- **Technologies:** Java, Android SDK, Firebase Realtime Database, PayHere, Google Maps API
- Built an Android application for buying and selling second-hand books, managing **50+ sample listings** using Firebase for real-time data handling.
- Integrated PayHere payment gateway to demonstrate secure in-app payment processing.
- Utilized Google Maps API to enable location-based book listings and enhance user experience.

## Technical Skills

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- Programming Languages: Java, JavaScript, TypeScript, SQL
- Web & Mobile Development: HTML, CSS, Bootstrap, React, Node.js, Express.js, Tailwind CSS
- Backend: RESTful APIs, MVC Architecture, Object-Oriented Programming
- Databases and ORMs: MySQL, MongoDB, Firebase, Hibernate
- Tools: GitHub, IntelliJ IDEA, VS Code, Postman, Android Studio
- Soft Skills: Collaborative development, clear technical communication, task prioritization

## Interests

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- Mobile Application Development
- Software Development
- Full-Stack Development
- Web Development