



Sandaruwan Dissanayake

Full-Stack Software Engineer (Next.js | React | Mobile)

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Professional Summary

Versatile Full Stack Software Engineer skilled in designing and developing scalable, high-performance web, mobile, software, and IoT applications using Next.js, React, and Java. Experienced in building end-to-end solutions with a strong foundation in frontend and backend development, RESTful API integration, and database design. Proficient in crafting responsive user interfaces, developing secure backend systems, and delivering production-ready applications through collaboration, attention to detail, and clean coding practices.

Professional Experience

1. Founder & Lead Full-Stack Engineer — Helixaa (helixaa.com | academy.helixaa.com)

(Jul 2024 – Present)

- Founded Helixaa and led the technical architecture of all corporate and internal educational platforms, engineering robust backends with **Spring Boot** and frontends using Next.js/React.
- Engineered the official web platform and integrated client dashboards using NextAuth state management and deployed scalable modern architectures seamlessly on Vercel.
- Developed PayLater, an offline-first Android digital credit ledger app using Java and Room Database to streamline debt tracking for local retail merchants.

2. Trainee Technical Lecturer - Java Institute for Advanced Technology, Colombo

(javainstitute.edu.lk) (Dec 2025 – Present)

- Guide and mentor students through object-oriented programming (OOP) principles, web architecture, and full-stack development concepts.
- Design and deliver structured lecture notes, practical guides, and code-along repositories to enhance students' hands-on engineering skills.

3. Full Stack Software Engineering Intern — Nanosoft Global (Pvt) Ltd, Kuliyaipitiya

(nanosoft.lk) (Aug 2024 – Feb 2025)

- Contributed to the frontend development of the Smart Coop Banking System using React, implementing secure workflows, UI improvements, and conducting comprehensive code reviews.
- Developed responsive Next.js frontend modules for Spendwise (expense management system) while participating in REST API design and database schema configurations for scalable modules

Technical Skills

- Languages & Frameworks: Next.js, React, React Native, Java, Spring Boot, JavaScript (ES6+), TypeScript (familiar), PHP

- Databases & State: MySQL, MongoDB, Room Database, Firebase, Context API, REST APIs
- Styling & UI: Tailwind CSS, CSS3, Bootstrap, Responsive & Mobile-first design, Figma (UI/UX basics)
- Tools & Methodologies: Git, GitHub, Vite, Webpack, npm, ESLint, Prettier
- Design & Multimedia: Adobe Photoshop, Illustrator (familiar)

Education

BEng (Hons) in Software Engineering (Graduated: April 2026)

IIC University of Technology (in partnership with Java Institute for Advanced Technology)

Relevant coursework: Web Development, Software Architecture, Databases , etc... ([Course Content](#))

Key Projects

Web applications

Helixaa Company Website & PayLater Admin Panel (Jul 2024 - present) | helixaa.com | academy.helixaa.com (Next.js, NextAuth, Tailwind CSS, Firebase, Vercel)

- Developed the official Helixaa Inc. landing website and integrated an admin panel with NextAuth and Firebase for secure authentication and business analytics
- Built a highly responsive UI using Tailwind CSS and deployed the architecture seamlessly on Vercel for optimal performance and efficiency

Mobile applications

PayLater Mobile Application (Jul 2024 – present) (Android, Java, Firebase, Room Database)

- Developed an Android credit management app featuring Room Database for offline-first local data storage and Firebase for secure user access
- Designed an intuitive Java-based UI, integrated automated PDF report generation, and implemented real-time tracking features for retail merchants

Software applications

B & D Electricals Inventory Management (Jan 2024 – Mar-2024) [Github](#) | [LinkedIn](#) (Java Swing, MySQL)

- Developed a desktop-based inventory and invoicing system utilizing Java Swing and MySQL to streamline sales and stock management
- Engineered core modules including Goods Received Notes (GRN), automated invoice generation, and real-time low-stock alerts

Key Extra-curricular

Cadet Platoon Petty Officer (Hermann Loos Trophy, 2014-2017) | School Prefect (2014-2016)

Professional References

Sanjeewa Pathirana (CEO, Nanosoft Global) |  sanjeewa@nanosoft.lk |  +94766454555

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