

# KAVEESHA HESHAN SENARATHNA

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## Professional Summary

Results-driven Software Engineering undergraduate at SLIIT with comprehensive expertise in full-stack development and emerging technologies. Proficient in building scalable web applications using the MERN stack, cross-platform mobile solutions with React Native and Flutter and implementing AI/ML capabilities in real-world projects. Experienced in IoT research and creating intuitive user experiences through Figma-based UI/UX design. Demonstrated ability to deliver user-focused digital solutions by combining strong technical foundations with problem-solving aptitude. Committed to continuous learning and applying research-driven approaches to develop innovative software solutions.

## Education

### BSc (Hons) in Information Technology (Specialized in Software Engineering)

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY (SLIIT) | 2022 – 2026

### School Education

RAHULA COLLEGE, MATARA | 2019 – 2021

## Technical Skills

- **Backend:** Node.js, Express.js, Spring Boot, Java, PHP, RESTful APIs, Microservices, JWT, OAuth
- **Frontend:** React, Tailwind CSS, Material-UI, Kotlin, jQuery
- **Databases:** MongoDB, MySQL, Firebase
- **DevOps & Cloud:** Docker, CI/CD (GitHub Actions), Vercel
- **Testing:** Jest, Postman, React Testing Library, JUnit

## Project Experience

### 1. Secure RESTful API for Personal Finance Tracker *(IT3030 – Programming Applications and Frameworks / Individual Project / Mar 2025)*

- Developed a **full-stack income & expense management system** using **Node.js, Express.js, MongoDB,** and **React.js** frontend.
- Built a **responsive React.js UI** for **CRUD operations** on income/expense transactions, including **forms, validation, filtering, and search.**
- Designed and implemented **secure RESTful APIs** for **user authentication**, income tracking, and expense management.
- Integrated **JWT authentication** with **middleware** to enforce **secure access control** and protected routes (frontend + backend).

- Built **Mongoose data models** (**User, Income, Expense**) with **schema validation**, relationships, and optimized queries.
- Implemented **dashboard analytics** in React (summary cards/charts/tables) to visualize totals, categories, and trends.
- Added **PDF report generation** for exporting income/expense summaries and enabled **download/export** from the frontend.
- Applied **MVC architecture** on the backend to ensure clean, scalable, maintainable code and separation of concerns.
- Used **Git/GitHub version control**, followed best practices for **API security, error handling, and input validation**.
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