

# Erandi Gamage

## Undergraduate Software Engineer

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## PROFESSIONAL SUMMARY

Passionate and motivated Software Engineering undergraduate at IJSE, skilled in Java, React, and Spring Boot. Experienced in delivering full-stack web and mobile applications. Collaborated in multi-member teams and implemented scalable solutions using Firebase and Node.js. Eager to contribute to innovative software projects and continuously learn new technologies.

## EDUCATION

**Bachelor of Computer Science | 2023 – 2026**

**Institute of Software Engineering (IJSE), Panadura**

- *Specialization: Software Engineering & Development*
- **Diploma in IT | 2023**  
ESOFT Metro Campus – Graduated with Best Performance Award
- **G.C.E. Advanced Level (A/L) – 2021(2022)**
- **G.C.E. Ordinary Level (O/L) – 2018**

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS
  - **Frameworks & Libraries:** React, Spring Boot, Node.js, Express.js, Matplotlib, Seaborn
  - **Databases:** MongoDB, MySQL, Firebase Firestore
  - **Tools / Environments:** IntelliJ IDEA, VS Code, Postman, Figma, Git, Canva
  - **Version Control:** Git & GitHub
  - **Mobile Development:** Cross-platform mobile apps (React Native, Expo), State Management (Context API, Redux), Authentication (Firebase Auth, JWT)
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## PROJECT EXPERIENCE

### Book Club Management System | Full-Stack

August 2025 | Present (Third Semester)

- **Technologies:** React, TypeScript, Tailwind CSS, Node.js, MongoDB, SendGrid/Nodemailer, JWT Authentication
- Designed and implemented a Book Club Management System to manage books, members, and club activities efficiently.
- Conducted functionality testing and optimization to ensure smooth performance and usability.
- Developed an intuitive and visually appealing user interface to enhance user experience.
- **GitHub Repository:** [https://github.com/erandie/RAD\\_Cource\\_Work](https://github.com/erandie/RAD_Cource_Work)

### Blood Donation Management System | Web Application

April 2025 | Present (Third Semester)

- Engineered a full-stack Blood Donation Management System using **Spring Boot** and **MySQL/Hibernate** to efficiently manage donor records, recipient requests, and real-time blood inventory.
- Conducted functionality testing and optimization to ensure smooth performance and reliability.
- Developed an intuitive and visually appealing user interface to enhance user experience.
- **Core Technologies:** MySQL, Hibernate, Java, WebSockets, BCrypt, Nodemailer (Email OTP), HTML, CSS, JavaScript, jQuery, and Maven for development.
- **GitHub Repository:** [https://github.com/erandie/RAD\\_Cource\\_Work](https://github.com/erandie/RAD_Cource_Work)

### Journaling and Habit Tracker Mobile App | Mobile App

October 2025 | Present (Third semester final project)

- Developed a cross-platform mobile app that helps users plan daily routines, track habits, and write journals. Implemented Firebase Authentication for secure sign-in, Firestore for real-time data, and Context API for state management. Focused on creating a clean and user-friendly interface with smooth navigation and reminders for consistency.
- **Key Features:** Authentication, Journaling, Habit & Task Management, Reminders, Search & Filter
- **Core Technologies:** React Native, Expo, Firebase, Context API, Node.js
- Links:
  - Demo: [https://youtu.be/TyvUcWnK4\\_A](https://youtu.be/TyvUcWnK4_A)
  - GitHub: <https://github.com/erandie/HabitTrackerApplication.git>
  - APK: <https://expo.dev/artifacts/eas/qEo5Na3XFLEgQ4ztPYbS8b.apk>

### Python Data Analysis Project

September 2025 | Present (Third Semester)

- Collaborated with a team to design and implement the project using **Python** and **Jupyter Notebook** for data analysis, scripting, and experimentation.
- Conducted functionality testing and optimization to ensure smooth performance and reliability.
- Coordinated tasks and contributed to team-based problem-solving and project documentation.
- **Technologies:** Python, Jupyter Notebook, Pandas, NumPy, Matplotlib, Seaborn

## RESEARCH EXPERIENCE

### Undergraduate Research Assistant

*Software Engineering Institute, IJSE, Panadura*

- Participated in Innovesta (an event in the first semester), a first-semester event involving field visits and collaborative team projects.
- Conducted experiments and implemented solutions using programming languages like Java.
- Analyzed and interpreted project results, contributing to reports and presentations for academic review.

## SOFT SKILLS

- Management Skills & Teamwork
- Problem Solving
- Project Management
- Time Management
- Collaboration
- Good Communication & Presentation Skills

## LANGUAGES

- English
- Sinhala

### REFERENCES

#### Mr. Prasad Waduge

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Institute of Software Engineering,

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### REFERENCES

#### Mr. Yasendra Darshana

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