

# Sandaru Gunathilake

## Software Engineer Intern

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sandaru-sdm (Sandaru Gunathilake)  
Portfolio: [https://sandaru-sdm.github.io/sandaru\\_gunathilake-portfolio/](https://sandaru-sdm.github.io/sandaru_gunathilake-portfolio/)

Enthusiastic and detail-oriented Software Engineering undergraduate with solid experience in **Java**, **Spring Boot**, **React**, and **MySQL**. Proficient in **OOP**, **REST APIs**, and full **SDLC**. Passionate about **backend development** and developer tools. Eager to contribute to innovative, **AI-enhanced** solutions in a collaborative and inclusive environment. Strong analytical skills and a proactive approach to problem-solving and learning.

### Skills

<b>Languages:</b>	<b>Java</b> , JavaScript, SQL, HTML, CSS
<b>Libraries</b>	React.js
<b>Frameworks:</b>	Spring Boot, Bootstrap
<b>Tools:</b>	<b>Git</b> , Postman, Maven, Firebase, VS Code
<b>Databases:</b>	<b>MySQL</b> , PostgreSQL, Firebase Firestore, <b>Oracle</b> (basic)
<b>Cloud:</b>	Firebase (basic exposure)
<b>Other:</b>	REST APIs, Microservices (basic), <b>Docker</b> (basic)
<b>Soft Skills:</b>	Teamwork, communication, problem-solving, proactive learning
<b>Skills in Development</b>	Eager to learn <b>Selenium</b> , <b>test automation</b> , and <b>Docker</b> to enhance expertise in automated testing and containerized deployments.
<b>Concepts:</b>	Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), REST APIs, Microservices
	<ul style="list-style-type: none"><li>Implemented full Software Development Life Cycle (<b>SDLC</b>) practices including requirements gathering, design, implementation, testing, and deployment for multiple projects</li><li>Created comprehensive <b>API</b> documentation and user guides following industry best practices.</li><li>Engineered efficient <b>database queries</b> that improved application response time by 30%.</li></ul>

### Freelance Java Developer

#### Restaurant Management System – Custom Java Application for Mr. Chef Restaurant

Jan 2025 – Mar 2025 | Remote

- Designed and delivered a full-featured **restaurant management system** using **Java Swing** and **MySQL**.
- Developed under complete **SDLC**: gathered requirements, designed interfaces, implemented features, tested functionality, and deployed.
- Developed modules for **user login**, **food and menu management**, **user/admin roles**, **invoice generation**, and **table reservations**.
- Integrated **JasperSoft Community Edition** for generating detailed **invoice and GRN (Goods Received Note) PDF reports**.
- Implemented a clean, user-friendly GUI to improve operational efficiency and reduce manual effort.
- Ensured **data persistence**, security, and error handling through proper MySQL integration and logging mechanisms.
- Successfully deployed the project to the client, meeting all functional requirements and deadlines.

#### Weerasinghe Piriwena Student Management System

Feb 2025 – Mar 2025 | Remote

- Built a comprehensive **Java Swing** application for managing **students, teachers, and guardians** at Weerasinghe Piriwena.
- Designed user interfaces for managing student records and generated **PDF reports** using **JasperSoft Community Edition**.
- Integrated **MySQL** database for persistent data storage and retrieval.
- Implemented error **logging**, validation, and user-friendly GUIs to enhance usability.
- Delivered a fully functional solution tailored to the client's educational administration needs.

### Projects

**Property-Sale Application Backend** – A Spring Boot-based backend system for a property marketplace, designed to connect buyers and sellers, streamline property listing management, and facilitate real estate transactions.

Technologies: **Java**, **Spring Boot**, **MySQL**, **Spring Security**, **Spring Data JPA**

2025 March - Present

- User & Property Management:** Enables administrators or users to add new users and list new properties with detailed information.
- Information Sharing & Export:** Allows users to share property links and download property details as PDF documents.
- Database Integration:** Leverages MySQL for robust data storage, managed via Spring Data JPA for efficient transaction and data handling.

- **Secure Access:** Implements Spring Security for user authentication and authorization, ensuring secure access to application features.
- **RESTful API:** Provides a comprehensive RESTful API for seamless communication between frontend services and the backend system.

**Invoicing Application Backend** – A Spring Boot-based backend system for invoice management, designed to streamline billing processes and enhance financial record-keeping for businesses. Provides a robust RESTful API for seamless integration.

**Technologies:** Java, Spring Boot, MySQL

2025 Feb – 2025 March

- **User Authentication:** Secure login, registration, and role-based access control (RBAC)
- **Invoice Management:** Create and manage invoices efficiently
- **Database Integration:** Utilizes MySQL for data persistence and transaction management
- **RESTful API:** Enables smooth interaction between frontend and backend services
- **Security & Access Control:** Ensures only authorized users can manage invoices

**Simple Idea Invoicing Frontend** – A React-based web application designed for managing invoices efficiently, developed for Simple Idea. This frontend integrates seamlessly with the Invoicing Spring Boot backend, providing a user-friendly interface for invoice creation and tracking.

**Technologies:** React, Bootstrap, Axios, React Router

2025 Feb – 2025 March

- **User Authentication:** Secure login and role-based access control
- **Invoice Management:** Create, update, and view invoices effortlessly
- **Backend Integration:** Connects with the Invoicing Spring Boot backend via Axios
- **Responsive Design:** Utilizes Bootstrap for a responsive UI
- **Navigation & Routing:** Implements React Router for smooth page transitions

**NPP Village Management System** – A Spring Boot-based backend system designed for managing villager records for the NPP political party in a village. The application enables administrators to efficiently store, update, and retrieve villager details using **Firebase Firestore**, ensuring secure and scalable data management.

**Technologies:** Java, Spring Boot, Firebase Firestore

2025 March – Present

- **User Management:** Secure administrator authentication and access control
- **Villager Records:** Add, update, and retrieve villager details efficiently
- **Database Integration:** Utilizes Firebase Firestore for fast and scalable storage
- **RESTful API:** Provides endpoints for smooth interaction with frontend applications
- **Security & Access Control:** Ensures only authorized administrators can modify data

**Presents LK USER Application** – Android application designed for shopping and user management, providing a comprehensive e-commerce experience for users. A User-friendly Android application for purchase various kinds of products.

**Technologies:** Java, Android, Firebase

- **User Authentication:** Seamless login, registration, and password recovery functionality
- **Product Browsing:** Explore products with detailed descriptions and high-quality images
- **Shopping Cart:** Easy item addition and streamlined checkout process
- **Order Management:** Track and view comprehensive order history
- **User Profile:** Customize and update personal profile details, including profile picture
- **Wishlist:** Save and manage favorite items for future purchases

**Simple Idea** - Simple Idea is a Java Swing-based invoicing application designed for Simple Idea Advertising. This application helps manage invoices, generate PDF reports, and log errors efficiently. It is built with NetBeans and uses MySQL for data management and Jasper Soft Community Edition for reporting.

**Technologies:** Java Swing, MySQL

- **Invoice Management:** Create and save invoices as PDFs.
- **Graphical User Interfaces (GUIs)** - Add New Customer, Home, Invoice, Other Services, Payment Type, Profit, Sales, Splash
- **Database Configuration:** Easily configurable database settings via a `variables.txt` file.
- **Error Logging:** Automatically logs errors to a file for troubleshooting.
- **Customizable:** Contains SQL files and launch4j configuration for further development.

## Education

**IIC University of Technology**

Nov 2021 - Present

**BEng in Software Engineering** | Software Engineering