

# Sandaru Gunathilake

## Software Engineer

Gampaha, Western Province, 11856 | +94 70 17 949 34  
maduhansadilshan@gmail.com | <https://www.linkedin.com/in/sandaru-gunathilake-701a791a0/>  
sandaru-sdm (Sandaru Gunathilake)

Eager and hardworking Software developer passionate about coding, problem-solving, and full-stack development. Skilled in Java, Spring Boot, JavaScript, and MySQL for backend development, with experience in React.js, React Native, RESTful APIs, and Git for version control. Proficient in working on collaborative projects using Agile methodologies. Seeking an opportunity to solve challenging problems, gain hands-on experience, and contribute to a professional development team.

## Skills

<b>Programming Languages:</b>	Java, JavaScript, PHP, SQL
<b>Web Development:</b>	HTML5, CSS3, React
<b>Frameworks:</b>	Spring (Core, Boot, Security, MVC), React, React Native, Bootstrap, JPA, Hibernate
<b>Databases:</b>	MySQL, PostgreSQL
<b>Architecture &amp; Designs:</b>	MVC, Microservices, Design Patterns, OOP, REST

## Projects

**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

- **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

- **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

- **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

**Weerasinghe Piriwena Student Management System** - Weerasinghe Piriwena Student Management System is a Java Swing-based student and teacher management application developed for the Weerasinghe Piriwena. This application manages Student Details, generates PDF about Students, manage teachers, manage guardian details and various functionalities. I used free dashboard by **DJ-Raven** which I found from online for develop this project.

**Technologies:** Java Swing, MySQL, Jasper Soft

- **Student Management:** Create, Update and View student data and open them as PDF files.
- **Teachers Management:** Create, Update and View teacher's data
- **Graphical User Interfaces (GUIs):** Home GUI, Student GUI, Guardian GUI
- **Logging:** Logs any errors in the application.
- **Report Generation:** Uses Jasper Soft Community Edition to create student details PDF reports.
- **Database Integration:** Uses MySQL for storing and retrieving application 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

**Presents LK ADMIN Application** - PresentsLK Admin is an Android application designed for managing an e-commerce platform's administrative tasks. It allows administrators to oversee products, manage user profiles, and handle orders efficiently.

**Technologies:** Java, Android, Firebase

- User Management: Add, update, and delete user profiles.
- Product Management: Add, update, delete, and view product details.
- Order Management: View and manage customer orders.
- Authentication: Secure login and registration functionalities.
- Password Management: Options to reset and update passwords.
- Profile Customization: Upload and update profile pictures.

**Jayantha Hardware** - Jayantha Hardware is a Java Swing-based invoicing application (POS System) developed for the company Jayantha Hardware. This application manages customer invoices, generates PDF reports, tracks profits, and handles various sales and service-related functionalities.

**Technologies:** Java Swing, MySQL

- Invoice Management: Create and save invoices as PDF files.
- Customer Management: Add and manage customer records.
- Graphical User Interfaces (GUIs): Home GUI, Invoice GUI, Other Services GUI, Services GUI, Payment Type GUI, Profit GUI, Sales GUI, GRN (Goods Received Note) GUI
- Logging: Logs any errors in the application.
- Report Generation: Uses Jasper Soft Community Edition to create PDF reports for invoices and GRNs.
- Database Integration: Uses MySQL for storing and retrieving application data.

**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.

**Student Management System** - The Student Management System (SMS) is a web-based application designed to streamline the management of students, assignments, and academic resources. This project is ideal for academic officers to efficiently manage student data, distribute assignments, maintain educational resources, make payments, and send emails.

**Technologies:** PHP, MySQL, Stripe API, SMTP Server

- User Management: Authentication for academic officers.
- Student Management: Add, view, and manage student details.
- Assignment Management: Upload, distribute, and manage assignments.
- Notes Management: Share and organize study materials.

**PresentsLK PHP Application** - PresentsLK is a robust PHP-based e-commerce platform designed to provide a seamless online shopping experience. The project offers comprehensive features for both customers and administrators, with a focus on user-friendly product management and order processing.

**Technologies:** PHP, MySQL, Stripe API, SMTP Server

- Secure user registration and authentication
- Intuitive product browsing, advanced search, and filtering
- Streamlined cart and order management system
- Product management (add, update, delete)
- Category and brand management
- User account administration
- Comprehensive order tracking and management
- Make Payments using stripe API
- Send verification e-mail with the help of SMTP Server

**PresentsLK J2EE Application** – Present LK is a Java-based application built using Maven.

**Technologies:** Java EE, MySQL, SMTP Server

- Secure user registration and authentication
- Intuitive product browsing, advanced search, and filtering
- Streamlined cart and order management system
- Product management (add, update, delete)
- Category and brand management
- User account administration
- Comprehensive order tracking and management
- Make Payments using stripe API
- Send verification e-mail with the help of SMTP Server

**ToDo Application** - A simple ToDo application built using Spring Boot and Maven, designed to manage tasks efficiently. This project provides a REST API for creating, reading, updating, and deleting tasks.

**Technologies:** Spring Boot, MySQL, JPA, REST API

- Task Management: Add, view, update, and delete tasks.
- Database Integration: MySQL is used as the backend database for persistent storage.
- REST API: Fully functional API endpoints for task operations.
- Spring Boot: Built with Spring Boot for rapid application development.
- Cross-Platform: Can be run on any platform with Java and Maven installed.

**Weather App** - A ReactJS-based weather application that provides real-time weather information with an intuitive and responsive interface.

**Technologies:** React JS, Weather API

- Search for weather data by city
- Display comprehensive weather conditions:
  - Temperature
  - Humidity
  - Wind speed
  - Weather type (clear, cloudy, drizzle, etc.)
- Responsive design with intuitive weather icons

## Education

**IIC University of Technology**

Nov 2021 - Present

**BEng in Software Engineering** | Software Engineering