



SASMITHA HIRAM

Software Engineer

CONTACT

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

About Me

I am currently pursuing studies at the Institute of Computer Engineering Technology (ICET) since 2024 to become a Full-Stack Engineer. My strong interest in technology and innovation motivates me to bring together strong communication skills with an unwavering love of music, further expediting creativity and collaboration. In the long term, I look forward to channeling this synergy created in the tech area for the betterment of the following generations.

Projects

Customer Management System - GitHub Repository : [Back-End](#) | [Front-End](#)

- Developed a full-stack CRUD application using Spring Boot (backend) and HTML, CSS, Bootstrap, JavaScript (frontend).
- Implemented a RESTful API for seamless data communication.
- Designed a scalable and well-structured architecture.
- Created a responsive UI with dynamic interactions.

Wholesale Store - Inventory Management System (In Progress) - GitHub Repository : [Wholesale Store](#)

- Developing a JavaFX-based inventory system with a layered architecture.
- Implementing Factory and Strategy Design Patterns for flexibility.
- Using Google Guice for dependency injection and decoupling.
- Integrating Hibernate for efficient database management.
- Designing a JavaFX UI with JFoenix for an enhanced user experience.
- Building CRUD functionality (in progress).

Wholesale Store - Inventory Management System - GitHub Repository : [Wholesale Store](#)

- Followed MVC Architecture for scalability and maintainability.
- Developed a JavaFX-based inventory system with a MySQL backend.
- Designed a user-friendly UI using JavaFX and JFoenix.
- Implemented the Singleton Design Pattern for resource efficiency.
- Secured data with Jasypt encryption.
- Integrated CRUD functionality for inventory management.

Weather 366 - GitHub Repository : [Weather366](#)

• Designed and developed a weather application offering real-time updates and 5-day forecasts. Features include a clean, intuitive UI, location-based search, and the ability to toggle between Celsius and Fahrenheit. Built using HTML, CSS, JavaScript, and the OpenWeather API.

ChatBot AI (Powered by Google Gemini API) - GitHub Repository : [ChatBot AI](#)

Developed an AI-driven chatbot leveraging Google Gemini API for intelligent and responsive conversations.

- Seamless UX/UI : Designed an intuitive and engaging user interface.
- Google Gemini API Integration : Implemented efficient AI-driven responses.
- Asynchronous Processing : Optimized real-time data flow for smooth interactions.
- Full-Stack Development : Synchronized frontend (JavaScript) with a robust backend and database.

My Portfolio - GitHub Repository : [My Portfolio](#)

HTML, CSS, and JavaScript, creating responsive, interactive, and user-friendly web experiences. Focus on clean code, modern design, and performance optimization.

Education

Wesley College

GCE Ordinary Level (O/L) | 2019

Achievements : 1 B, 5 C, 2 S

GCE Advanced Level (A/L) | 2022 (2023)

Commerce Stream

Achievements: 3 S