CONTACT

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EDUCATION

GDSE - Graduate Diploma in Software Engineering
2022- Present
IJSE-Institute of Software Engineering

GCE Ordinary Level
2007-2018
Matara Rahula Colledge

G.C.E Advanced Level Examination(Maths Scheme)
2018-2021
Matara Rahula Colledge

Language

English

Sinhala

Lahiru Harshana
SOFTWARE ENGINEER UNDERGRADUATE

I'm Lahiru Harshana, a software engineering student at IJSE. I am a dedicated and motivated software engineering student with a strong passion for technology and innovation. My career objective is to leverage my academic background, technical skills, and problem-solving abilities to contribute effectively to the field of software engineering. I aspire to work in a dynamic and collaborative environment, where I can continuously learn, grow, and apply my knowledge to develop cutting-edge software solutions that make a positive impact on society. I am eager to embark on a rewarding career journey that allows me to apply my creativity and expertise to create software that enhances user experiences and drives technological advancements.

SKILLS

- **Programming Languages**
  Java

- **Web Development**
  HTML, CSS

- **Version Control**
  Git

- **Database Management System**
  MySQL

- **Frameworks**
  Hibernate, JavaFX, Swing

- **Tools**
  IntelliJ Idea,Visual Studio Code, Figma

- **Operating Systems**
  Windows, MacOS, Linux

RELEVANT COURSEWORK

- Object-Oriented Programming
- Database Management Systems
- Web Development
- Software Engineering Principles
- Object Relational Mapping
- Network Programming
- Socket Programming

PROJECTS

Pilisaru - Waste Management System

Associate with Pilisaru Organic Fertilizer Manufacturing Complex

- "Pilisaru" is a prize-winning waste management software created by Team Zyko.
- Team Zyko received the Best Teamwork Trophy at Innovesta 2023, an event hosted by IJSE.
- The software is named after the renowned Pilisaru Organic Fertilizer Manufacturing Complex in Sri Lanka.
- Pilisaru utilizes Java, JavaFX, MySQL, and CSS technologies.
- Its purpose is to improve waste collection, processing, and recycling, with a focus on sustainability.
- The team expresses gratitude to IJSE for the opportunity to showcase their teamwork and innovation.

Railway Station Management System

Associate with Galle Railway Station

- **Ticket Booking:** Users can easily book railway tickets through the system. This functionality includes selecting departure and destination stations, travel dates, and the number of passengers.
- **Ticket Allocation:** The system has a ticket allocation system to manage seat availability. It ensures that passengers are allocated seats efficiently and avoids overbooking.
- **Ticket Issuance:** After successful booking, the system generates and issues electronic tickets to passengers. These tickets can be displayed on-screen or printed for convenience.
- **Payment Processing:** The system supports secure payment processing, allowing passengers to pay for their tickets online using various payment methods.
- **Employee Access**: Authorized staff can log in to the system to perform tasks such as ticket allocation, resolving booking issues, and managing train schedules.
- **Reporting:** The system generates reports that provide insights into ticket sales, revenue, and passenger data. This helps in decision-making and planning.
- Technology Stack: Utilized Java, MySQL, JDBC, Jasper Reports, JavaFX, and CSS.
- Achievement: Recognized with 5th place in the GDSE program for this innovative project.

D24 - Hostel Management System

Associate with IJSE

- Project: Developed the D24 Hostel Student Registration and Room Management System, a Java-based application.
- Tech Stack: Leveraged Java, JavaFX, MySQL, Hibernate, and a layered architecture to create a robust solution.
- Objective: The project aimed to simplify hostel room reservations for university students studying in the Colombo area.
- Achievements: Transformed the manual record-keeping system, resulting in increased operational efficiency and improved security for student and fee payment management.
- Responsibilities:
  - Led the design of a user-friendly interface using JavaFX to enhance the user experience.
  - Contributed to the implementation of a secure layered architecture, ensuring modularity and maintainability.
  - Developed and tested CRUD operations for managing student and room records.
  - Implemented access control and data protection measures to ensure the system's security.
- Results: Delivered a scalable and secure system capable of accommodating up to 125 students at a time.
- Impact: The project significantly streamlined hostel operations, simplifying the process of recording and managing student information. The system received positive feedback from hostel management for its contribution to operational efficiency..

Chat App

Associate with IJSE

- Description: Designed and implemented a real-time chat system for Play Tech Pvt Ltd's customer service division.
- Achievements:
    - Enabled instant messaging with support for text, Unicode, emojis, and images.
    - Implemented robust user authentication and data encryption for security.
    - Optimized the system for performance and scalability to accommodate future growth.
- Technologies: Network Programming, Java, Javafx, CSS
- Results: Improved team communication and collaboration within the customer service division.

CERTIFICATIONS

Introduction to java (Sololearn)

Credential ID : CC-CH5BUUYY

Java (Basic) (HackerRank)

Credential ID : 83D7BA84A630

1 Semester Final 5th Place CERTIFICATE