



# THEEKSHANA BUDDHIKA

## SOFTWARE ENGINEER UNDERGRADUATE

### ADDRESS :

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## EDUCATION

### GDSE - Graduate Diploma in Software Engineering

2022- Present

IJSE-Institute of Software Engineering

### GCE O/L Level

2013-2018

G/Gintota National School

### GCE A/L Level

2020-2021

College of Fast Track Learning

## CAREER OBJECTIVE

My career objective is to become a highly skilled and innovative software engineer. As an undergraduate at IJSE Institute, I am committed to honing my programming skills and gaining a deep understanding of software development methodologies. I aspire to work on cutting-edge projects and contribute to the evolution of technology.

## LANGUAGES

- English
- Sinhala

## WORK EXPERIENCE

### Teacher Assistant

College of Fast Track Learning | January 2021-February 2022

- Helped with lesson planning and curriculum development.
- Graded assignments and provided constructive feedback.
- Gained strong communication and organizational skills.

## SKILLS

- **Programing Languages**

Java / c++

- **Web Development**

HTML, CSS

- **Version Control**

Git

- **Database Management System**

MySQL

- **Frameworks**

Hibernate, JavaFX, Swing

- **Tools**

Visual Studio Code, IntelliJ Idea, Figma

- **Operating Systems**

Windows, 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.

### 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..

## Cocos - Oil Mill Management System

Associate with Dedu oil mill

- Objective: Created for 1st-semester final project in IJSE's GDSE program.
- Factory Specs: Managed an oil mill with 30 sewing machines and a workforce of 40 employees.
- Functionality: Developed a comprehensive software solution to streamline operations.
  - Production Management: Handle details about the daily production of oil products.
  - Accessory Management: Efficiently managed inventory.
  - Employee Management: Monitored attendance, processed payroll, and tracked performance.
  - Supplier and Buyer Management: Recorded supplier and buyer information, managing payments and deliveries.
  - Report Generation: Automated report generation for various purposes as annual and daily production details.
- Technology Stack: Utilized Java, MySQL, JDBC, Jasper Reports, JavaFX, and CSS.
- Achievement: Recognized with 2nd place in the GDSE program for this innovative project.

## 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

### Innovesta

Prize for best teamwork

### OOP Finals

2nd place for best project