

Danutha Navodya Imbulpitiya

Undergraduate Student

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[H](#) Hacker Rank [M](#) Medium [P](#) Portfolio

PROFILE

Second-year Software Engineering student at IIT with a passion for solving real-world problems and building scalable systems. Eager to contribute to impactful projects and grow as part of a collaborative team.

EDUCATION

BEng Software Engineering

the Informatics Institute of Technology (IIT), affiliated with the University of Westminster, UK

S. Thomas' College - Bandarawela

Physical Science Stream **2021**

SKILLS

- MERN Stack
- Mysql
- OOP
- Spring Boot
- NestJS
- Docker
- Firebase

PROGRAMMING LANGUAGES

Java

JavaScript

Python

Kotlin

PROJECTS

Post-Harvest Farmer Buyer Network System [🔗](#)

Digital Platform for Connecting Farmers and Buyers

A full-stack Mobile application using

- **Flutter**
- **Django**
- **TensorFlow**

Real-Time Ticketing Simulation System [🔗](#)

The Real-Time Ticketing Simulation System is an application that allows users to simulate a dynamic ticketing environment.

- **Backend:** Spring Boot
- **Frontend:** Angular
- **Database:** MySQL (for storing configurations)

Personal Expense Tracker (Backend) – NestJS [🔗](#)

Built a RESTful API with NestJS and MySQL to manage personal expenses, including expense tracking, total calculations, and category management. Focused on modular design and data validation.

- Add, retrieve, update, and delete expenses
- Calculate total and highest expenses
- Manage custom expense categories

Student Management System

A Student Management System for registering students, managing records, storing/loading details, and generating reports.

- Registered, deleted, and searched student records using unique IDs (w1234567 format).
- Stored and retrieved data from .txt files using Java File I/O.
- Implemented modular design using OOP principles with Student and Module classes.
- Generated sorted student lists and calculated total marks, averages, and grades.
- Used error handling and validation for smooth user interaction.

Dice Game

Strategic Dice Game with Adaptive AI and Modern UI

A player vs computer dice game built with Jetpack Compose! Set a target score, roll the dice, and strategize to win. Features smart AI, win tracking, tiebreaker rounds, and a sleek UI.

- Built entirely with Jetpack Compose for modern, declarative UI.
- Designed an adaptive AI with phase-based strategic decision-making.
- Focused on accessibility, performance optimization, and responsive design for phones and tablets.

Movie App

A feature-rich Android app for movie enthusiasts with modern UI.

A modern Android app that allows users to search for movies by title, actor, or IMDB ID using real-time data from the OMDB API. The app features a clean, responsive UI built with Jetpack Compose and Material 3,

- Instant Search by Title, Actor, or IMDB ID
- OMDB API Integration – Real-time movie data
- Modern UI – Built with Jetpack Compose and Material 3
- Responsive Design – Optimized for phones and tablets
- Fast Image Loading – Using Coil for smooth image rendering

Task Manager Web App (MERN Stack)

A simple web app to manage daily tasks. Users can add, edit, delete, and track tasks by status, priority, and due date.

- Add, update, and delete tasks with title, description, due date, and priority
- Track task progress with status: To Do, In Progress, Done
- Filter and sort tasks by status or priority
- Built RESTful API for efficient frontend-backend communication
- Responsive and modern user interface with clean UX
- Modular and scalable codebase structure for maintainability

CERTIFICATES

Winner of CodeRally 5.0

Organized by IEEE Computer Society, Informatics Institute of Technology, Student Branch Chapter

Java (Basic) Certificate



It will cover basic topics in Java language such as classes, data structures, inheritance, exception handling

Problem Solving (Basic)

Certificate

It covers basic topics of Data Structures (such as Arrays, Strings) and Algorithms (such as Sorting and Searching).

IEEE Xtreme 18.0 Programming

 A global competitive programming challenge organized by IEEE .

Python (Basic) Certificate

Python (Basic)
It covers topics like Scalar Types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects and Types and Classes

EXTRA CURRICULAR ACTIVITIES

Sports

- Member of the college's U-17 Badminton team and went on to represent the school in all island competitions
- Member of the college U-13 Cricket Team

Clubs and Societies

- President of college's photography club
- Member of Scouting Organization