Danutha Navodya Imbulpitiya

Undergraduate Student

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▦ Hacker Rank ◖◗ Medium 🔗 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).

IEEEXtreme 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

REFERENCES

Guhanathan Poravi, *Senior Lecturer Grade I,*
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