



# Danutha Navodya Imbulpitiya

## Undergraduate Student

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🏆 Hacker Rank 🎯 Medium

Second-year Software Engineering Student at the Informatics Institute of Technology (IIT) with a strong passion for building scalable systems and solving complex problems through code. Skilled in Java, JavaScript, Python, and Kotlin, with hands-on experience in full-stack development (web/mobile) and algorithmic problem-solving. Skilled at solving technical problems, improving solutions, and using software engineering practices like OOP, design patterns, and the software development life cycle. I'm eager to use my problem-solving skill and technical abilities to help build creative software solutions as part of a team.

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### Education

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**BEng Software Engineering**, *University of Westminster/ Informatics Institute Of Technology*

#### Modules

##### First year Modules

- Software Development I (Python)
- Mathematics for Computing
- Trends in Computer Science
- Computer Systems Fundamentals
- Software Development II (Java)
- Web Design and Development

##### Second year Modules

- Object-Oriented Programming
- Database Systems
- Software Development Group Project
- Mobile Application Development
- Algorithms: Theory, Design, and Implementation
- Software Engineering Principles and Practice

**S. Thomas' College - Bandarawela**

Physical Science Stream **2021**

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### programming languages

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**Java**

**Kotlin**

**JavaScript**

**Python**

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### Skills

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Spring Boot • React.js • NestJS • Node.js • Express.js • MongoDB • MySQL • OOP • Docker

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## Certificates

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### Winner of CodeRally 5.0

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

### 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

### IEEEExtreme 18.0 Programming

A global competitive programming challenge organized by IEEE [!\[\]\(de95854c7ee024cfadc48187bbb781b2\_img.jpg\)](#) .

### Problem Solving (Basic) Certificate

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

### Java (Basic) Certificate

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

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## Projects

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### 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)

**Student Management System,** *A Student Management System for registering students, managing records, storing/loading details, and generating reports.* [!\[\]\(166772600a13ad0a433053f90fe45649\_img.jpg\)](#)

**Java**

### Personal Expense Tracker (Backend) – NestJS

Developed a RESTful API using NestJS to manage personal expenses with a modular, service-based architecture. Features include adding/retrieving expenses, calculating totals, finding the highest expense, and managing custom categories. Used DTOs for validation and clean separation of concerns. Built with scalable structure and MySQL integration.

**Tech Stack:** NestJS, TypeScript, Node.js, REST API, MySQL, Postman

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## Extra Curricular Activities

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### 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

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## References

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**Guhanathan Poravi,** *Senior Lecturer Grade I,*

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