



# Dushmin Malisha

Computer Engineering Undergraduate

## CONTACT ME

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## TECHNICAL SKILLS

- Java, JavaScript, TypeScript, Python, C, C++, C#, Kotlin, Dart
- React, Angular, Next.js
- scikit-learn, PyTorch, TensorFlow and Keras
- OpenCV
- SpringBoot, NodeJS, Express
- Linux
- HTML, CSS
- MySQL, MongoDB, PostgreSQL
- Agile Methodology
- Docker, Terraform
- AWS
- Git
- Flutter, React Native
- Figma

## ABOUT ME

I am a third-year computer engineering undergraduate at the Faculty of Engineering, University of Ruhuna. I am passionate about different aspects of computer engineering from computer programming, hardware description language, machine learning, deep learning, web development and devops.

## PROJECTS

### Dinefy web - Client Side Restaurant Management System

With Spring Boot, Angular and PostgreSQL

This project is a comprehensive solution for client side restaurant management. It provides a calendar and dashboard for order management, essential tools to monitor kitchen management such as waiter handling, table booking. It can be used for different user roles such as restaurant owner, manager, waiter etc.

### Stellar Voyage - Mobile App

With React Native and Spring Boot

The Intergalactic Space Travel Booking Application is designed to simplify and streamline the process of booking interplanetary travel tickets for citizens who wish to travel from one planet to another. This mobile app provides frontend features such as user friendly interface and cross-platform capability for both iOS and Android devices. It has backend features such as User authentication, search and book flights, user profiles and email verification, CI/CD pipeline with GitHub actions was also used for automation of the development process.

### 32 bit RISC Processor

With Verilog

This 32 bit RISC Processor with memory controller is designed using Verilog. This Processor embodies 15 basic instructions involving Arithmetic, Logical, and Data Transfer and control instructions. To implement these instructions the design incorporates various design blocks like Control Unit (CU), Arithmetic and Logic Unit (ALU), Accumulator, Program Counter (PC), Instruction Register (IR), Memory and additional logic.

### Flight Delay Prediction with Machine Learning

With Python and scikit-learn

By using a kaggle dataset which includes 500,000 records about flight delays in US this machine learning model is able to predict whether a given flight will delay or not (classification problem) based on various flight data. Two models were trained using k-NN and SVM. Due to the nature of the dataset comprehensive preprocessing of data was done. Machine learning techniques such as oversampling (SMOTE), dimensionality reduction(LDA) and K-fold cross validation were also implemented.



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## EDUCATION

### B.Sc. Eng in Computer Engineering University of Ruhuna

2019 - Present

### G.C.E. A/L - 2019

Gamini National School, Nuwara Eliya  
2019 - 2016

### G.C.E. O/L - 2015

Gamini National School, Nuwara Eliya  
2015 - 2005

## SOFT SKILLS

- Teamwork
- Leadership
- Problem solving
- Strong analytical skills
- Effective communication
- Adaptability and flexibility
- Fast learning

## LANGUAGES

- English
- Sinhala

### Patient Management System

With WPF C#, Entity Framework and SQLite

This WPF desktop application is a user friendly solution for patient management. MVVM pattern and Entity framework with SQLite was used in development process. It has features such as different user roles, CRUD operation and user authentication.

### ATM Application - Data Structures project

With C++

This ATM management system can handle multiple bank accounts for multiple banks. It can do transactions between accounts, handle withdrawals and deposits. It also keep track of the account history. Data structures such as hash tables and linked list were used. No libraries were used when implementing data structures.

## VOLUNTEERING

### Logistics team member for SparkLink 1.0 Electronic Design Competition

As a student member of IEEE Student Branch University of Ruhuna

Jun 2023 - Sep 2023

## LICENSES & CERTIFICATIONS

Assured Diploma in Information Technology (DITEC) - Esoft Metro Campus

Assured Diploma in English (DIE) - Esoft Metro Campus

Learn Spring Boot 3 in 100 Steps No 1 Java Framework - Udemy

## ACHIEVEMENTS

HaXtream 2.0 - 2023

7th place for team 1stLane

Eminence 2.0 - 2022

Best performance in Packet Tracer

## REFERENCES

### Dr. Nadeesha Sandamali

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Dept. of Electrical and  
Information Engineering,  
Faculty of Engineering,  
University of Ruhuna

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