



# VENUKA R RANASINGHE

COMPUTER SCIENCE UNDERGRADUATE

As a computer science undergraduate, I offer strong technical skills and problem-solving abilities. Proficient in multiple programming languages and methodologies, I adapt quickly to new technologies. With a proven track record in teamwork and problem-solving, I excel in collaborative environments, contributing effectively to achieve shared goals.

## CONTACT

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- Mount Lavinia
- <https://github.com/VenukaR>
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## INTERPERSONAL SKILLS

- Leadership
- Teamwork
- Creativity
- Critical Thinking
- Time Management

## TECHNICAL SKILLS

Python | Java | HTML | CSS | JavaScript |  
GitHub | Flutter | NodeJS | Figma | SQL | R |  
ML

## EXPERIENCE

### GRAPHIC DESIGNER/EDITOR

Freelance (Part Time)

#### 2020 - Present

Specialize in creating captivating visual content that aligns with clients' unique needs.

## EDUCATION

### 2022 - Present

**READING AT INFORMATICS INSTITUTE OF TECHNOLOGY  
(AFFILIATED WITH UNIVERSITY OF WESTMINSTER , UK)**  
**BSc (Hons) Computer Science**

#### Modules Covered:

Software Development I - Python	81	Client-Server Architectures	82
Mathematics for Computing	85	Software Development Group Project	93
Trends in Computer Science	53	Machine Learning and Data Mining	-
Computer System Fundamentals	96	Information Technology Security	68
Software Development II- Java	81	Database Systems	80
Web Design and Development	93	Object Oriented Programming	66

### 2022

**GRAPHIC DESIGN AND MULTIMEDIA PROGRAM (SLIIT)**

### 2008 - 2021

**ANANDA COLLEGE || COLOMBO**

**GCE Advanced Level (2019-2021)**

Physical Science Stream (Combined Math, Physics, Chemistry)

**GCE Ordinary Level (2018)**

08 As & 01 B

## PROJECTS

### RUMBLE GUARD Software Development Group Project

Rumble Guard is an innovative group project designed to mitigate the human-elephant conflict in Sri Lanka, with myself as the team leader. This cutting-edge mobile app utilizes seismic wave detection technology and deep learning algorithms to accurately detect elephant movements. The app provides real-time alerts to users, helping communities stay informed and safe. Our backend is built with Node.js and MongoDB, ensuring robust data management, while the frontend is developed using Flutter for a seamless user experience. Additionally, TensorFlow powers our machine learning models, enhancing the accuracy of elephant detection. This project reflects our commitment to leveraging advanced technology for environmental conservation and community safety.

Skills used : Flutter, NodeJS, Python, Mongo DB, Figma  
[www.rumbleguard.com](http://www.rumbleguard.com)

## ACHIEVEMENTS

- Shortlisted for **Hult Prize 2024**  
Selected for Dubai Summit (June 2024)  
**Rumble Guard**

## EXTRA CURRICULAR

### CLUBS AND SOCIETIES

- Leo Club Of Colombo Griffins | District 306 C2 - Leo
- Rotaract Club of IIT - Member
- IIT Toastmasters Club - Member

### SPORTS

- Athletics

## REFERENCES

- **Mr. Kushan Bhareti**  
Visiting Lecturer - Informatics  
Institute of Technology  
Director - Inforwaves (Pvt) Ltd.  
BEng (Hons) Software Engineering  
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- **Mrs. Shirani Jayasundara**  
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## BLOOD LINK | IDEALIZE'23 BYTESHIFT(Group Project)

Blood Link, a web platform connecting blood donors, banks, and recipients to address shortages and boost donation rates. Its user-friendly design has revolutionized blood donation, leading to more donations and improved processes.  
Skills used: HTML,CSS,JS

## EDUMAX | CODESPRIN 7.0 MATRIX(Group Project)

Implemented software for practicing past paper books, offering students a convenient and cost-effective learning solution. This innovative approach enhanced the educational experience for traditional book enthusiasts by introducing new knowledge through forums and SMS updates.

Skills used: HTML,CSS,JS

URL : [https://github.com/Alexandertheasian02/CS-251\\_Matrix](https://github.com/Alexandertheasian02/CS-251_Matrix)

## MARKET-PREDICTION-SYSTEM-NN Machine Learning

multilayer neural network (MLP-NN) to predict the next day's USD/EUR exchange rate. Data from October 2011 to October 2013 were split into a training set of 400 entries and a testing set of 100. I employed an "autoregressive" (AR) approach, utilizing time-delayed exchange rate values as input variables for accurate forecasting.

Skills used: R

URL : <https://github.com/VenukaR/Market-Prediction-System-NN>

## ONLINE SHOPPING SYSTEM OOP (Individual)

Developed an online shopping system with console-based admin management and a user-friendly GUI. It enables customers to browse, add to carts, and make purchases while allowing admins to manage merchandise efficiently. This was part of my coursework in object-oriented programming.

Skills used: Java

URL : <https://github.com/VenukaR/OnlineShopping>

## CINEMA TICKET BOOKING SYSTEM SD2 (Individual)

Skills used: Java

URL : <https://github.com/VenukaR/CinematicicketBS>

## MUSICHUB Web Development (Group)

Skills used: HTML,CSS,JS

URL : <https://github.com/VenukaR/MusicHub>

## UNIVERSITY PROGRESSION OUTCOME PROGRAM

SD1 (Individual)

Skills used: Phython

URL : <https://github.com/VenukaR/UniversityProgressOutcome>