

# Nimantha Madhushan

Computer Science  
undergraduate



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📅 2000/04/26

## 📄 PROFILE

Passionate Full-Stack Developer and Software Engineer with hands-on experience in web, mobile, and backend development. Skilled in building scalable applications using React, Spring Boot, Flutter, React Native, Java (OOP, Swing), and SQL/NoSQL databases.

## 🌐 LANGUAGES

Sinhalese

English



## EXTRACURRICULAR ACTIVITIES

### Member

Computer Science Students'  
Community  
present | University of Ruhuna

## 📁 PROJECTS

### InstaLearn – Unified Education Management Platform

Developed a web-based education management platform to streamline academic and administrative processes in tuition centers. Features include real-time dashboards, automated exam management, progress tracking, QR-based attendance management, and secure online payments with reminders.

- **Tools:** React, Redux Toolkit, Bootstrap, Spring Boot, MySQL, GitHub, Figma

### Soundly – Music Playlist App

Developed a cross-platform music playlist app using Flutter and FastAPI for backend services. Includes features such as user authentication, playlist customization, song discovery, and interactive player design.

- **Tools:** Flutter, FastAPI, GitHub, Figma

### Get Safe – Flood Detection & Emergency Assistance App

Developed a flood detection system and emergency assistance app, integrating React Native for mobile development and Firebase for the backend. Key features include emergency services, real-time flood alerts, and interactive map features.

- **Tools:** React Native, Firebase, GitHub, Figma

### Banking Management System (Java)

A banking system created with Java and Java Swing, focusing on secure user login, account management, and transactions.

- **Tools:** Java (OOP, Java Swing), GitHub

### Unreal Engine AI Project Showcase

Developed AI-based mechanics and implemented in Unreal Engine 5 to showcase advanced behaviors and AI-driven interactions for game environments.

- **Tools:** Unreal Engine 5, Blueprints

### 3D Character & Product Design (Blender Projects)

- 3D Tank Animation – Created a realistic tank animation with dynamic fire effects.
- Mushroom Man – Developed a stylized, modular 3D character with playful aesthetics.
- Low-Poly Character Animation – Designed, rigged, and animated a game-optimized low-poly character.
- Black Gold – Modeled and rendered a luxury perfume bottle with detailed textures and lighting.

## EDUCATION

### **Bachelor of Computer Science (BCS)**

Department of Computer Science,  
University of Ruhuna  
present | Matara, Sri Lanka

### **Diploma in English Language**

British Way English Academy  
2021 | Kalutara, Sri Lanka  
Result-Merit Pass

### **G.C.E-Advanced Level**

Horana Royal College  
2020 | Horana, Sri Lanka

Combined Mathematics B  
Information and Communication  
Technology B  
Physics C

### **G.C.E-Ordinary Level**

KL/Haltota Kanishta Vidyalaya  
2016 | Horana, Sri Lanka  
Result- A2 & B4 & C3

## REFERENCES

### **Mr.S.A.S.Lorensuhewa,**

Senior Lecturer (Grade I),  
University of Ruhuna  
aruna@dcs.ruh.ac.lk, 0718205066

### **Mrs. M.A.L. Kalyani, Lecturer,**

University of Ruhuna  
kalyani@cc.ruh.ac.lk, 033-2226357  
071-8213208

## KNOWLEDGE AREAS

### **Programming:**

- Java (OOP, Java Swing), C, C++, Python, JavaScript, PHP

### **Web & Mobile Development:**

- React, React Native, Flutter, HTML, CSS, FastAPI, Spring Boot

### **Databases & Backend:**

- MySQL, MongoDB, PostgreSQL

### **Cloud & DevOps:**

- AWS, Kubernetes, CI/CD Pipelines

### **Version Control & Tools:**

- GitHub

### **Game & 3D Development:**

- Unreal Engine 5, Blender

### **Others**

- Figma, Docker

## VOLUNTEERING

### **Volunteer Teacher – STEMUP Educational Foundation**

- Conducted coding workshops for students at the CoderDojo program.
- Taught programming fundamentals and problem-solving skills to young learners.

### **Referee – Intra Faculty Sports Meet 2023**

Sports Club, Faculty of Management and Finance,  
University of Ruhuna

- Served as a **Kabaddi Referee** at the **Intra Faculty Sports Meet 2023**, organized by the Sports Club.