

# NIMANTHA MADHUSHAN

## SOFTWARE ENGINEER

Horana, Sri Lanka | 01nimantha@gmail.com | 076-2637657 | linkedin.com/in/01nimantha

---

### SUMMARY

---

Passionate and results-driven Full-Stack Developer and Software Engineer with expertise in web, mobile, and backend development. Skilled in building scalable and high-performance applications using modern technologies, including React, Spring Boot, Flutter, React Native, and SQL/NoSQL databases. Strong foundation in object-oriented programming (Java, Swing). Experienced in developing education platforms, music streaming apps, emergency assistance solutions, and AI-powered game mechanics. Adept at collaborating in dynamic environments, contributing to open-source projects, and mentoring aspiring developers.

### PROJECTS

---

#### InstaLearn – Unified Education Management Platform

Built 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

Engineered 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

Engineered 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)

Built 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

Built 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

#### Crafted 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.

## SKILLS

---

### Programming:

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

### Web & Mobile Development:

- React, React Native, Flutter, HTML, CSS

### Databases & Backend:

- MySQL, MongoDB, PostgreSQL, FastAPI, Spring Boot

### Cloud & DevOps:

- AWS, Kubernetes, CI/CD Pipelines

### Game & 3D Development:

- Unreal Engine 5, Blender

### Others

- GitHub, Figma, Docker

## 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

### G.C.E-Advanced Level ( Combined Mathematics ,ICT,Physics )

Horana Royal College  
2020 | Horana, Sri Lanka

## 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

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

## ADDITIONAL INFORMATION

---

- **Languages:** English, Sinhalese.
- **Member:** Computer Science Students' Community  
present | University of Ruhuna