

R.D. MADUSHAN PRABOD KUMARA

SOFTWARE ENGINEER | FULL STACK DEVELOPER | IT UNDERGRADUATE

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PERSONAL PROFILE

Final-year Information Technology undergraduate with experience developing full-stack web and mobile applications using PHP, Java, Firebase, and modern development practices. Built role-based systems, academic platforms, and AI-integrated applications. Interested in Software Engineering, Cloud, Web Development, and AI solutions.

PROJECTS

RASAS – Conference Management Web Application

Jan 2025 - Up to Now

Tech Stack: PHP, MySQL, HTML, CSS, JavaScript, Bootstrap, PHPMailer

- Developed a role-based conference management system for academic paper submission and review workflows.
- Implemented author, co-author, reviewer, editor, and treasurer dashboards.
- Built features including abstract submission, reviewer assignment, payment verification, email notifications, and conference registration.
- Improved workflow automation from submission to acceptance and payment tracking.
- Applied responsive web design and secure authentication practices.

Website : www.rasas.fohss.lk

SSB – Social Security Board (Web Application)

Jan 2025 - Dec 2025

Tech Stack: PHP, MySQL, JavaScript, Bootstrap

- Developed a centralized web application to support digital social security services.
- Implemented contributor registration, pension information management, and service request processing.
- Designed role-based access for citizens, officers, and administrators.
- Improved accessibility and streamlined service delivery processes.
- Focused on usability, scalability, and information transparency.

Website: www.ssb.gov.lk

MediConnect – AI-Powered Healthcare Mobile Application

Jul 2025 - Aug 2025

Tech Stack: Java, Android Studio, Firebase, Gemini API

- Developed an Android healthcare application to improve access to medical services.
- Integrated AI-powered symptom checking and health assistance features.
- Implemented real-time messaging and doctor consultation modules.
- Added hospital location services and cloud-based data storage using Firebase.
- Designed mobile-first UI for improved user experience.

GitHub: <https://github.com/Madushan-Prabod/mediconnect>

Tech Stack: React, Next.js, Tailwind CSS, JavaScript, AI-Assisted Development (Vibe Coding)

- Developed a web-based digital lamp lighting experience for FreshWave 2025.
- Used AI-assisted development (Vibe Coding) to accelerate UI prototyping, frontend implementation, and feature iteration.
- Implemented real-time user interaction and dynamic flame animations
- Designed responsive interfaces using modern frontend technologies and component-based architecture.
- Optimized performance and user experience for concurrent participants.

GitHub: <https://github.com/Madushan-Prabod/digital-oil-lamp>

SKILLS

Languages:

Java, PHP, JavaScript, HTML, CSS, Python

Frontend:

Bootstrap, Tailwind CSS

Backend:

PHP

Database:

MySQL, Firebase

Mobile:

Android Studio

Tools:

Git, GitHub, Figma

Concepts:

OOP, REST API, SDLC, Networking

Soft Skills:

Leadership, Teamwork, Time Management, Communication, Problem Solving, Adaptability

EDUCATION

Bachelor of Arts (Hons) in Information Technology

Mar 2023 - Mar 2027

University of Ruhuna

- Project Management, Software Engineering, Web Application Development, Object-Oriented Programming, Internet of Things, Visual Programming, Networking, Digital Image Processing, Mobile Application Development, Quality Assurance, Database Management

RESEARCH AND PUBLICATIONS

- Automated Classification of Classroom Engagement Levels via Deep Learning and Pose Estimation - RASAS, 2025
- Cardiovascular Disease (CVD) Prediction with Machine Learning (ML) K-Neighbor (KNN), Decision Tree (DT), and Random Forest (RF) Classifiers - GAS Journal of Engineering and Technology (GASJET), 2(4), 1-9, ISSN: 3048-5800, 2025.
- Impact of Online Learning Tools on Academic Performance of University of Ruhuna Students - International Journal of Scientific Modern Research and Technology
- FaceFirst: A Scalable and Secure Face Recognition-Based Attendance System - 12th South Eastern University International Arts Research Symposium
- Real-Time Marine Fish Identification System Using IoT Smart Buoys, Edge Deep Learning (DL), and Mobile Heatmap Visualization - International Journal of Science and Research (IJSR)

ADDITIONAL INFORMATION

• **Certifications:**

Completed coursework for Cisco Certified Network Associate (CCNA)
Coursera, Cisco and Udemy Courses

- **Languages:** Sinhala, English

RESEARCH INTEREST

Internet of things, E-Learning, Software Engineering, Smart Technologies, Machine Learning (ML)

REFERENCES

Dr. K.H. Ramanayaka

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