

# Rasanji Wijesuriya

## Software Developer

✉ wijesuriyarananji@gmail.com

☎ +(94) 76 473 7989

📍 Matara, Sri Lanka

🌐 Rasanji Wijesuriya

🔗 RasaKWijesuriya

🔗 rasakwijesuriya



### 👤 Profile

I am a final year Software Engineering student at IIT with expertise in programming, machine learning, and data analysis. My internship involved developing mobile apps with Flutter, Node.js, and MySQL. My final project featured a health monitoring web app using React.js, Firebase, Node.js, Python, and MongoDB. My portfolio includes a ticket printing system with Java concurrency and a coronary heart disease model with Python and Firebase. Known for adaptability and problem-solving skills, I am eager to advance the tech industry with impactful software solutions.

### 🎓 Education

#### **B.Eng. Software Engineering**

2020 – 2024 | Colombo 06, Sri Lanka

*Informatic Institute of Technology (Affiliated with the University of Westminster)*

- Gained a solid foundation in software development, covering programming principles, algorithm design, and machine learning.
- Honed problem-solving skills through coursework in areas such as concurrent programming, cybersecurity, and server-side development.
- Enhanced technical proficiency, adaptability, and collaboration through individual and group projects.

#### **G.C.E. Advanced Level Examination - Physical Science Stream**

2018 | Matara, Sri Lanka

*St. Mary's Convent*

- Successfully completed A/Ls in the Physical Science stream, focusing on mathematics, physics, and chemistry.

### 🧠 Skills

**Tech Skills** – Java | Flutter | Python | HTML, CSS, Js | React.js | PHP | GIT/ GitHub • **Soft Skills** – Problem solving | Teamwork | Time Management | Public Relations | Communication skills | Able to work collaboratively | Software programming languages

### 🎵 EXTRA CURRICULAR ACTIVITIES

- Member of Rotaract Club of IIT.
- President of Mathematics Club (2017).
- Member of Sinhala and Lit Club, Science Club, and Art Club of St. Mary's Convent. (2016- 2018).
- Member of School Athletic Team.
- Member of the School Netball Team.

## Projects

### Exploration Of Vibration Analysis For Monitoring Sewing Machine Health

2023 – 2024

#### Web App

- Developed a web app using React, Node.js, Python, and MongoDB to monitor sewing machine health through vibration data and real-time machine learning.
- Integrated data visualization and real-time alerts for proactive maintenance.
- Designed the system to be scalable, handling multiple machines efficiently.

### Ticket printing system

2023 – 2024

- Developed a ticket printing system using Java concurrency, leveraging multithreading to handle multiple requests simultaneously for optimal performance.
- Implemented thread synchronization to ensure accurate and orderly printing.
- Enhanced system reliability and speed through efficient concurrency management.

### Predicting Coronary Heart Disease

2021 – 2022

#### Mobile App

- Developed a mobile application to predict the likelihood of coronary heart disease within the next 10 years using 14 key health parameters.
- Leveraged machine learning models in Python for accurate predictions.
- Integrated the app with Flutter and Firebase for a user-friendly interface and secure data storage.

### Mortgage Calculator

2022

#### Desktop App

- Developed a mortgage calculator using Java OOP principles such as encapsulation, inheritance, and polymorphism.
- Created modular, reusable code for scalability and maintainability.
- Implemented flexible classes for different mortgage types to ensure efficient and accurate calculations.

### Gym management system

2022

#### Desktop app

- Developed a desktop application for gym management using core Java concepts.
- Implemented features such as member registration, payment tracking, and class scheduling.
- Focused on delivering efficient and user-friendly functionality for seamless gym operations.

## References

**R. Sivaraman**, *Visiting lecturer*, Informatics Institute of Technology  
ragu.s@iit.ac.lk, +(94) 772725764

**Banuka Athuraliya**, *CEO - Andro Dollar Network/ Visiting Lecturer*,  
Informatics Institute of Technology  
banu@androdollar.com, +(94) 77 778 1061