



RAVINDU ARIYARATHNE

Associate Software Engineer

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Depanama, Pannipitiya.

► WORK EXPERIENCE

National Development Bank PLC

Undergraduate Intern - Software Engineering (August 2023 – August 2024)

- Developed a web application with middleware functionality using **Spring Boot**, **MySQL**, and **Java** for the eRemittance transaction system, enabling efficient monitoring and resolution of ambiguous transactions for the Remittances department.
- Built a repository analytics dashboard with **Spring Boot** and **JavaScript** to track GitLab repository activities, providing real-time insights and optimizing the development workflow.
- Collaborated with development teams, contributed technical documentation, and adapted quickly to new technologies and project requirements.

DFCC Bank PLC

Trainee – Personal Financial Services Dept. (February 2021 – June 2021)

- Processed new credit card applications in the Personal Financial Services department, ensuring accuracy and timely handling of customer data while maintaining compliance with banking procedures.

► EDUCATION

BEng (Hons) Software Engineering

Second Class Lower Division

University of Westminster (UK), IIT Sri Lanka (January 2022 – September 2025)

- Completed a four-year Bachelor of Engineering in Software Engineering, including a year-long industrial internship.
- Developed strong knowledge of software engineering principles, modern development practices, and multiple programming languages.
- Completed two major research and development projects, demonstrating problem-solving and analytical skills.
- Relevant Coursework: Object Oriented Programming, Database Systems, Server-Side Web Development, Machine Learning and Data Mining, Algorithms & Data Structures, Concurrent Programming.

GCE Advanced Level – Physical Science Stream

Royal College, Colombo 07 (July 2017 – August 2019)

- | | |
|-----------------|----------------------------|
| • Physics – C | • Combined Mathematics – S |
| • Chemistry – C | • General English – A |

► PROFILE

Software Engineering Graduate with one year of industrial internship experience. Focused on building practical software solutions and supporting development workflows. An adaptable team player dedicated to contributing effectively to project goals in collaborative environments.

► TECHNICAL SKILLS

- Java
- Spring Boot
- Python
- React
- Next.js
- MySQL
- Machine Learning
- JavaScript / TypeScript
- HTML/CSS
- GIT
- Docker
- Azure

► ESSENTIAL SKILLS

- Adaptability
- Communication
- Problem-Solving & Critical Thinking
- Teamwork & Collaboration
- Time Management

► VOLUNTEER WORK

- Member of IEEE Computer Society Student Branch Chapter of IIT (2022 – 2025)
- Member of Leo Club of IIT (2022 – 2025)
- Volunteer teacher at Vajira Buddhi Dhamma School, Depanama, Pannipitiya. (2022 – Present)
- IIT Cutting Edge 2022 – Secretarial Committee Volunteer
- IIT Cutting Edge 2025 – Volunteer

► HOBBIES

- Chess
- Geography
- Hiking
- History
- Video Games

► REFERENCES

Mr. Indika Shyamal

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National Development Bank PLC
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► PROJECTS

SpendSense – Final Year Research Project

[Repository](#)

AI-Powered Personal Financial Advisor

- Designed and developed SpendSense, an AI-driven platform that provides personalized financial advice by analyzing individual spending habits, income, and financial goals using machine learning and **NLP**.
- Built with a **Flask** backend and **React** frontend, integrating a multi-output XGBoost model for expense prediction, Isolation Forest for anomaly detection in SMS transactions, and Prophet for stock forecasting.
- Implemented an interactive dashboard with real-time visualizations and a chatbot interface, enabling users to receive tailored budget plans, detect anomalies, and access investment insights.

ChatLink

[Demo](#) [Repository](#)

Real-Time Web Chat Application

- Developed a real-time 1-to-1 chat application with **Spring Boot**, **WebSockets**, **Thymeleaf**, and **MySQL**, supporting instant messaging and file attachments.
- Implemented secure user authentication, and email verification using SMTP and API-key-based transactional email services.
- Designed chat features including message replies, chat deletion, and mobile-responsive UI for cross-device usability.
- Containerized the application with **Docker** and managed cloud deployment on **Azure**, implementing persistent storage volumes for user-uploaded media.

Sinhala OCR & Document Converter

[Demo](#) [Repository](#)

AI-Powered Sinhala OCR Solution

- Developed a specialized OCR tool to convert scanned Sinhala PDFs and images into editable Word documents (.docx) using **Python (FastAPI)** and **Next.js**.
- Implemented image processing techniques, including smart upscaling and contrast enhancement, to improve **Tesseract OCR** accuracy for low-resolution text.
- Deployed the application to a cloud environment using **Docker** on Render, with the frontend hosted on Vercel for public access.

► CERTIFICATIONS / COURSES

- Microsoft Certified: Azure Data Fundamentals – Microsoft
- Microsoft Certified: Azure AI Fundamentals – Microsoft
- Agile Project Management with Jira Cloud: 1 Projects, Boards, and Issues – LinkedIn Learning
- Agile Project Management with Jira Cloud: 2 Lean and Agile Processes – LinkedIn Learning
- Artificial Intelligence Foundations: Machine Learning – LinkedIn Learning
- Pearson assured diplomas in IT and English – ESOFT Metro Campus (2021)