

# RAVINDU SASANKA

## IT UNDERGRADUATE

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in Ravindu Sasanka

🐙 Ravindu Sasanka

📍 Kelaniya, Sri Lanka

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### SUMMARY

Enthusiastic undergraduate at the Faculty of Science, University of Kelaniya, with hands-on experience in software engineering, AI/ML, and modern web development. Experienced in working with Microsoft Azure and TensorFlow to build practical software solutions through multiple university projects. Contributed to open-source projects by identifying and fixing bugs. Highly adaptable and detail-oriented, with a proven ability to design and implement scalable software systems. Committed to continuous learning and contributing effectively to technical projects in collaborative, dynamic environments.

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### EDUCATION

BACHELOR OF SCIENCE (HONS) IN INFORMATION TECHNOLOGY 2024 - Present  
Department of Industrial Management, Faculty of Science,  
University of Kelaniya.

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### SKILLS

- Programming Languages: C++, Java, JavaScript, Python.
- Web Application Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js, RESTful APIs.
- AI / Machine Learning: TensorFlow, Keras, Natural Language Processing (NLP), Deep Learning (CNN/RNN).
- Databases: MySQL, MongoDB, PostgreSQL, Firebase.
- Developer Tools: Git, GitHub, VS Code, MySQL Workbench, Jupyter Notebook.
- Soft Skills : Team collaboration, Effective Communication, Time management.

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### PROJECTS

#### **Hasal Products – Inventory & Order Management System (2024 - present)**

Designed and developed a role-based management system for a spice manufacturing business to streamline inventory control and daily operational workflows. The system manages product inventory, batch tracking, customer orders, supplier purchase orders, deliveries, returns, invoicing, and business reporting from production to distribution.

- Technologies Used: JavaScript, Supabase, React.js, Node.js

#### **AutoMate - AI-Driven Vehicle Diagnostic & Cost Estimation System (2026)**

Developed an AI-based vehicle diagnostic system to classify dashboard warning symbols and provide guidance to users. Implemented an image classification model using Python and TensorFlow (MobileNetV2) to recognize dashboard indicators. Built a user interface using Streamlit and integrated a PostgreSQL database to manage symbol data and related information.

- Technologies Used: Python, TensorFlow (MobileNetV2), Streamlit, PostgreSQL

#### **Redi Talk - Distributed Messaging System (2026)**

Developed a distributed chat application as part of a university project to understand real-time communication and state management concepts. Implemented backend messaging logic using Node.js and integrated Redis for managing session data and message synchronization between clients. The system enabled multiple users to communicate in real time while maintaining shared state across connected sessions.

- Technologies Used: Node.js, Redis, JavaScript

## **Premium Shoes - Fully Functional E-Commerce Web Application (2025)**

Developed a secure authentication and authorization system for an e-commerce web application as part of a university group project. Implemented features including JWT-based login, role-based access control (RBAC), email verification, OTP-based SMS authentication, password recovery, and refresh token handling to enhance application security and user management.

- Technologies Used: JavaScript, Node.js, Express.js, JWT

## **Travel Mate - Mobile Application (2025)**

Developed a multi-role tourist marketplace mobile application as part of a university module project. The system allows different user roles (e.g., tourists and service providers) to interact through role-based dashboards and manage services within the platform.

Implemented real-time data synchronization using Firebase Firestore, integrated media handling via Cloudinary for image uploads, and added search and map navigation features to enhance usability and user experience.

- Technologies Used: Flutter, Firebase (Firestore), Cloudinary

## **WSO2 API Manager – Open Source Contributions (2026)**

- Resolved a Devportal layout bug affecting application detail pages under custom UI configurations, ensuring consistent rendering across desktop and mobile views.

PR: <https://github.com/wso2/apim-apps/pull/1277>

- Enhanced reliability of token introspection flow by implementing proper HTTP timeout handling in the backend client, preventing thread blocking under failure conditions.

PR: <https://github.com/wso2/carbon-apimgt/pull/13666>

Technologies Used: Java, React, Git, REST APIs

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## **CERTIFICATIONS**

### **Machine Learning with Python I (2026)**

- Completed 300+ hours of intensive coursework covering the full ML lifecycle.
- Built 5 core projects including an SMS Spam Classifier and Image Recognition models using TensorFlow and Keras.

### **Data Engineering Foundations I (2026)**

- Covered data wrangling, database schema design, and ETL pipeline development.
- Learned big data tools including Apache Hadoop, Apache Hive, Apache Spark, and Apache Airflow.
- Introduced distributed computing and data engineering workflows.

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## **EXTRA CURRICULAR**

- Karate , University of Kelaniya 2024 - Present

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## **REFERENCES**

### **Prof. Janaka Wijayanayake**

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### **Dr. Thilini Mahanama**

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