

# Pasan Baddewithana

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## EDUCATION

<b>Sri Lanka Institute of Information Technology</b> <i>Bachelor of Science (Hons) in Information Technology Specializing in Software Engineering</i> Grade Point Average 3.15	Colombo, SL June. 2021 – Sep 2025
<b>C.W.W. Central College</b> <i>General Certificate In Advanced Level - Bio Stream</i>	Mathugama, SL May 2016 – Dec 2019
<b>Kalutara Vidyalaya</b> <i>General Certificate In Ordinary Level</i>	Kalutara, SL Jan 2005 – May 2015

## WORK EXPERIENCE

<b>Gravity Colombo PVT LTD</b>   <i>Intern Software Engineer, Colombo, SL</i>	Aug 2024 – Aug 2025
<ul style="list-style-type: none"><li><b>Real Realtor Web App</b><ul style="list-style-type: none"><li>* Developed a web application to manage real estate advertisements for the Real Realtor company.</li><li>* Implemented features using ReactJS, ExpressJS, NodeJS, and MySQL with media storage via Amazon S3.</li></ul></li><li><b>Ceylon Ambassador Web App</b><ul style="list-style-type: none"><li>* Designed a comprehensive portfolio web application for the Ceylon Ambassador company.</li><li>* Built backend services using NodeJS, ExpressJS, MongoDB, and Prisma ORM.</li></ul></li><li><b>Thilakawardhana Groups Backup POS &amp; Parking Ticket Mobile App</b><ul style="list-style-type: none"><li>* Created a mobile application to manage backup POS operations and parking ticket issuance.</li><li>* Developed the application using React Native with Expo (EAS Build) and SQLite for local data storage.</li></ul></li></ul>	

## ACADEMIC PROJECTS

<b>E.N.T Insight</b>   <i>YOLO, FastAPI, NextJS, MongoDB, Flutter, Roboflow, Hostinger</i>	June 2024 – June 2025
<ul style="list-style-type: none"><li>Focused on identifying FO (foreign objects) in the throat using lateral neck X-rays.</li><li>Developed and trained a YOLO-based object detection model for accurate and efficient detection.</li><li>Utilized Roboflow for dataset preparation and augmentation.</li><li>Built supporting systems with FastAPI (backend), Next.js (web frontend), and Flutter (mobile app) for model deployment and accessibility.</li><li>A research paper is published about this project (IEEE): <a href="#">View Publication</a></li></ul>	
<b>Ceylon Translate</b>   <i>MERN Stack, Tesseract OCR, Google Translate API</i>	June 2023 – Nov 2023
<ul style="list-style-type: none"><li>Designed and developed a multimodal web application for English–Sinhala and Sinhala–English translation using text, images, PDFs, and voice inputs.</li><li>Implemented OCR-based text extraction from images and documents using Tesseract OCR.</li><li>Built a community posting and commenting system to encourage user interaction and feedback.</li><li>Led a third-year group project with a team of four, managing development tasks and integration using the MERN stack.</li><li>A research paper was published based on this project: <a href="#">View Publication</a></li></ul>	

## AWARDS

<b>Best Research Paper Presentation Award</b> <i>8th Conference on Artificial Intelligence and Big Data</i>	May 2025
<b>Dean's List Award – Year 4, 2nd Semester</b> <i>For Academic Excellence</i>	Jan 2025 – Jun 2025

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C/C++, SQL, Dart, JavaScript, HTML/CSS, R, Kotlin
<b>Frameworks:</b> Express.js, Next.js, React Native, Flask, JUnit, Laravel, Flutter, FastAPI, Langchain, Ultralytics YOLO
<b>Developer Tools:</b> Git, GitHub, Docker, Kubernetes, Google Cloud Platform, AWS (EC2, S3), Postman, MongoDB Atlas, MySQL, VS Code, PyCharm, IntelliJ, JupyterLab, Google Colab, Roboflow, Ultralytics Hub
<b>Libraries:</b> React, Material-UI, pandas, NumPy, Matplotlib, Open cv, TensorFlow, Keras