

Pasan Baddewithana

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EDUCATION

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

WORK EXPERIENCE

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

ACADEMIC PROJECTS

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

AWARDS

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

TECHNICAL SKILLS

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