Pasindu Sandamal
Software Engineer
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Professional Profile

I am a motivated and diligent software engineering graduate with a strong sense of responsibility and a proven ability to tackle challenges through effective decision-making, teamwork, and leadership. Passionate about advancing my knowledge and express while embracing emerging technologies. I am adaptable, eager to learn, and committed to leveraging my skills to contribute to the growth and success of the organization.

Familiar Areas

Full Stack Development | Mobile App Development | Machine Learning | Desktop Application

Experience

Trainee Software Engineer BevyLabs
2024 JULY – 2025 JAN

- Developed a Flutter-based mobile app using GOOGLE_MLKIT_TEXT_RECOGNITION package and GEMINI API to extract text from images and generate MCQs or essay prompts for improved content interaction.
- Designed and implemented an interactive mobile application aimed at teaching Python programming, incorporating engaging tutorials, quizzes, and real-time coding exercises to enhance learning experiences for users.
- Developed a machine learning model for shrimp detection using the YOLO (You Only Look Once) framework, integrating it with Python and Flask for deployment, and further incorporated it into a Python GUI using Tkinter to allow users to upload images and get a count of detected shrimps.
- Redesigned the user interfaces mobile application aimed at teaching Python programming in the Sinhala language.

Education

B.Sc. (Hons) Software Engineering | Plymouth University (UK)
2021 SEP – 2024 DEC

Projects

Lung Cancer Detection Application (Final Year Research Project)
Developed a Python-based application utilizing a custom convolutional neural network to detect and classify lung cancer stages as normal, malignant, or benign.
Technologies: Python, Flask, TensorFlow, Google Colab, HTML, CSS, JS, Image Processing, Machine Learning, Keras

Automated Medium Article Generator
Designed a web application to facilitate the generation and publishing of articles on Medium using the Medium API.

Technologies: Python, Flask, Ollama, Medium API

POS System Development
Developed a desktop application in C# to manage sales operations efficiently.
Technologies: C#, SQLite, .NET Framework

Study Buddy Application
Designed a mobile application that allows users to upload text-based images and generate related questions for study purposes using generative AI techniques.
Technologies: Flutter, Dart, Generative AI, Gemini API, Google_Mlkit_Text_Recognition, Text Recognition
Link: - https://play.google.com/store/apps/details?id=com.bevylabs.study_buddy&hl=en

Python Sinhala App
Redesigned the user interfaces mobile application aimed at teaching Python programming in the Sinhala language.
Technologies: Flutter, Dart, Firebase.
Link: - https://play.google.com/store/apps/details?id=bevylabs.buddhika.pythonsinhala&hl=en

Publications

Enhancing Lung Cancer Diagnosis with Custom-Designed Convolutional Neural Network
Developed a custom convolutional neural network (CNN) to classify lung cancer stages (normal, malignant, benign) using CT scan images.

Achievement

Cisco IT Essentials 7.0
Successfully completed the Cisco IT Essentials 7.0 course, which provided foundational skills in computer hardware and software, networking, and security.

DUOTHEN 3.0 Coding Competition, NSBM Green University
Successfully completed the DUOTHEN 3.0 coding competition, showcasing advanced programming skills and problem-solving abilities in a competitive environment.

Links

https://github.com/pasindusandamal
https://medium.com/@sandamalpkp318
https://www.linkedin.com/in/pasindu-sandamal-66340423a/
https://www.researchgate.net/profile/Pasindu-Sandamal?ev=hdr_xprf