

NIMSARA LIYANAGE

BSc. Hons Computer Engineering graduate

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📍 Colombo , Sri Lanka

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Profile Summary

Motivated Associate Software Engineer with hands-on experience in AI, Machine Learning, Deep Learning and fullstack and mobileapp development. Proven ability to build scalable applications and collaborate in team environments. Seeking a **Software Engineering** role to leverage my technical and problem-solving skills.

Core Competencies

- **Programming Languages:** Python,Java,C++, JavaScript , Dart
- **Database Systems:** MySQL,PostgreSQL
- **Frameworks & Libraries:** FastAPI, Django, React, Next.js, Flutter, Vue.js
- **APIs & Tools :** AWS,Azure, REST APIs,Git ,Docker, Postman, Jira , Trello, Figma, Gitlab,Grafana
- **Core Computer Science :** Object-Oriented Programming, Data Structures & Algorithms
- **Machine Learning,AI ,Deep Learning :** CNNs, RNNs, TensorFlow, LLM Fine-Tuning

Education

BSc.Eng. (Hons) in Computer Engineering

University of Jaffna, Sri Lanka

Apr 2021 – Nov 2025

Major: Artificial Intelligence, Machine Learning, Deep Learning, Data Mining, Software Engineering

Experience

Software Engineer Intern - FocalID Technologies – Full-time

Feb 2025 – Aug 2025

- Designed, developed and containerized scalable mobile applications using Flutter, Python FastAPI and Docker, alongside integrating OpenMetadata to enhance data observability for machine learning ecosystems.
- Automated UI testing in the "**legis-futura-automation**" project using the **Playwright** testing framework.
- Built a dynamic dashboard UI using **Vue.js**, improving data visualization and user interaction.
- Contributed to the "**WSID backoffice**" **dashboard** by developing backend features with **Django** and designing front-end interfaces using **HTML** and **CSS**.
- Developed the "**Chicago backoffice**" dashboard UI with **Next.js** and integrated it with **FastAPI** endpoints for seamless frontend-backend communication.
- Built interactive AI chat model UI widgets for "**DATAFAB.AI**" using **Next.js** and integrated them with backend services developed in **FastAPI**.

Software Developer – CETEC(Pvt) Ltd (Freelancing Project) – Part-time

May 2025 – Sep 2025

- Designed and implemented a dashboard for a water monitoring project using **Next.js** and **Php** and **MySQL**.

Associate Software Engineer – Aagee AI (Singapore) – Full-time

Jan 2026 – Present

- Building scalable mobile applications and backend systems. I specialize in Flutter development and cloud-native architectures using AWS and Azure.
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Projects

Sinhala Spell Checker and Grammar Checker |

AI (ML – Random Forest , DL – RNN)

Nov 2024 - Jan 2025

- Built a Sinhala Spelling checker using custom LSTM and Levenshtein Distance method .Then created a Sinhala grammar checker using three different approaches such as Rule Based, Random Forest classifier and RNN approaches.
- Created a combine model and it responds to spelling and grammar mistakes simultaneously!

Research Project

Machine Learning - Molecular Characterization Comparison between Breast Cancer, Ovarian, Cervical and Pancreatic Cancers (Random forest , SVM , Naive Bayes)

Feb 2024 – Nov 2025

- Conducted a comprehensive analysis using TCGA datasets (Over 20000 genes handled), Classified cancers using Random forest, SVM, Naïve Bayes to compare the molecular profiles of four cancer types.

Plant Disease Detection Using VGG16 & ResNet50 |

Deep Learning (VGG16 | ResNet50)

Jun 2024 - Jul 2024

- Developed a plant disease detection model with ResNet50 and VGG16, ResNet50 model achieved 90.24% accuracy and it helps to demonstrating deep learning applications in agriculture.

Smart Attendance System Using Fingerprint Recognition |

Embedded Systems (Arduino | AS608 Fingerprint sensor | React.js)

May 2024 - Jul 2024

- Developed a fingerprint attendance for secure fingerprint recognition, a microcontroller for processing, ensured secure storage of fingerprint data and accurate attendance records using react web app.

Certificates

- Python for Beginners - [University of Moratuwa](#)
- Developing Front End Apps with React - [IBM \(Coursera\)](#)
- AI/ML Engineer Stage 1 & Stage 2 – [SLIIT](#)
- Career Essentials in Generative AI by Microsoft and LinkedIn - [LinkedIn Learning](#)

Affiliations and Volunteer Works

Student Member - The Institution of Engineers, Sri Lanka (IESL)

Membership Num - S - 30038

Student Member - IEEE

Membership Num - 100095616

Volunteer at Member, Student Organizing Committee - 2nd International Conference on Engineering

Leadership Experiences

- Senior Editor - IEEE ComSoc UOJ 2024
- Chess Captain - Engineering Faculty University of Jaffna 2023 - 2024
- Senior Prefect - Royal College Polonnaruwa 2015 - 2018
- Chess Captain - Royal College Polonnaruwa 2016 - 2018

Additional Activities

- YarlExtreme 2024 Hackathon - **2nd runner up**
- < Code storm 2.0 > 2024 Hackathon - **5th place**
- Web Master at Engineering Student Union
- FIDE Rated Chess Player (Peak ELO Rating: 1624)

Referees

Dr. (Mrs.) Pratheeba Jeyanathan
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