



LASITHA DILSHAN THILAKARATHNA

SOFTWARE ENGINEER

Personal information

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Github

<https://github.com/lasithadilshan>

Linkedin

<https://www.linkedin.com/in/lasitha-t-3027ab120/>

References

Jeewaka Nuwan Fernando

Associate Architect - Virtusa

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Nirodha Rupasinghe

CEO - Java Institute

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Objective

Motivated Software Engineer with 4 years of experience in the IT industry, specializing in full-stack development, cloud integration, and Generative AI solutions. Passionate about continuous learning and career growth, I am eager to contribute to innovative and challenging projects that drive business value. I seek a dynamic work environment that not only utilizes my technical expertise but also supports professional development and long-term stability.

Experience

2022 - Present

Virtusa

Associate Software Engineer, Colombo

Perform Frontend, Backend and Data Engineering (Generative AI) tasks

2021 - 2022

Surreytech Consulting Sri Lanka

Intern Engineer

One year internship - Full Stack

Projects

2025-Present

POLICY DOCUMENT ANALYZER

Virtusa Client Project

This application leverages Generative AI to extract content from documents and intelligently answer user questions, while also analyzing the accuracy and relevance of the responses in relation to the source material. Built using Angular for the frontend and Python with Flask and FastAPI for the backend, the system integrates Large Language Models (LLMs) via LangChain and utilizes AWS services, including AWS Bedrock, to ensure scalable and reliable performance in delivering context-aware, document-grounded answers.

2024	AI-POWERED CV GENERATOR - GENERATIVE AI <i>Virtusa</i> An AI-driven application that extracts key information from various CV formats, structures the content into a predefined Virtusa resume template, and exports the final version as a Word or PDF file. It utilizes Python, ReactJS, FastAPI, OpenAI, LangChain, LLMs, and Generative AI technologies.
2024	SDLC AUTOMATATION - GENERATIVE AI <i>Msc Final Year Project</i> Developed a system leveraging Generative AI to enhance the Software Development Life Cycle by automating the generation of user stories, test cases, and scripts. Python, Generative AI, OpenAI, LangChain, LLM https://github.com/lasithadilshan
2024	BRD TO USER STORY GENERATION - GENERATIVE AI <i>Virtusa - Generative AI Hakathon</i> Created a solution to transform Business Requirement Documents (BRD) into user stories using Generative AI, streamlining the software development process. Python, Generative AI, OpenAI, LangChain, LLM
2023	AFTER HOUR TRANSPORT & FOOD MANAGEMENT SYSTEM <i>Virtusa</i> Created a solution to manage foods and transport facilities for the employees to work after office hours. Microsoft Power Apps, Microsoft SharePoint React TypeScript
2022	PROTECTIVE_OPENTEXT PROGRAM(PRINT_PRO) <i>Virtusa Client Project</i> ANGULAR PROJECT TypeScript, Bootstrap,CSS, Scss, Material UI
2021	DOCTOR APPOINTMENT MANAGEMENT SYSTEM <i>Surreytech Consulting Sri Lanka</i> Angular Project for managing and scheduling doctor appointments of patients TypeScript, Bootstrap,CSS, Scss, Material UI
2020	SOCIAL NETWORK ANDROID APPLICATION <i>JAVA INSTITUTE 3'RD YEAR PROJECT</i> ANDROID VIVA PROJECT Java, SQLite , Firebase , FireStore
2019	FOOD ORDERING SYSTEM <i>Personal Project</i> A solution for ordering foods Java Native Android, Firebase
2018	SHOE SHOP WEB CART JAVA WEB APPLICATION <i>JAVA INSTITUTE 2'ND YEAR PROJECT</i> JAVA WEB APPLICATION Java, MySQL
2017	PHONE SHOP JAVA DESKTOP APPLICATION. <i>JAVA INSTITUTE 1'ST YEAR PROJECT</i> JAVA SE APPLICATION Java, MySql

Education

2023 - Present

Msc in Information Technology (Reading)
SLIIT, Sri Lanka
Master of Science in Information Technology

2018 - 2021

B.Eng in Software Engineering
IIC University of Technology (IIC), Cambodia
Degree(Second Upper) (GPA - 3.56)

Skills

Programming Languages

Java

JavaScript

TypeScript

CSS

Html

SCSS

Generative Artificial Intelligence

Open AI

LangChain

LLM

Hugging Face

FastAPI

FlaskAPI

Web Development

Java Spring Boot

Angular

React

NEST JS

Database

MySql

PostgreSQL

Firebase

Version control

Github

GitLab

API Management

Spring Boot API

Fast API

NEST JS API

Mobile Development

Native Android

Google Play Store

Publications

Research Paper

OPTIMIZING USER EXPERIENCE THROUGH MACHINE LEARNING: A REVIEW OF KEY TOOLS AND TECHNOLOGIES

Lasitha Thilakarathna, Kulesh Abhayasundara, Gihan Thilakarathna, Diliru Nagahawatta, Jagath Wickramaratne | 2024

Conducted an in-depth review of ML applications in UX design, focusing on privacy concerns, bias mitigation, and ethical implementation. Evaluated ML tools like PyTorch, TensorFlow, and BigQuery alongside design platforms such as Figma to assess their impact on UX workflows and system adaptability. Identified research gaps and proposed best practices for responsible ML integration in digital design. Explored emerging technologies, including AR/VR, to shape the future of ML-driven UX solutions.

Competences

- ✓ **Career Essentials in Generative AI**
Microsoft and LinkedIn, 2023
- ✓ **Gen AI Hackathon Certificate of Participation**
Virtusa, 2024
- ✓ **Virtusa Custom Generative AI Pathway Certification**
Virtusa, 2024
- ✓ **Virtusa Certified GenAI Assisted Engineer Program Certificate**
Virtusa, 2024