Thavindu Liyanage

Computer Science Undergraduate

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PROFILE

A final year Computer Science undergraduate with a strong passion for backend engineering, problem solving, and developing innovative software solutions. With hands-on experience in designing and building precise, efficient web applications using modern frameworks, I am driven by a continuous desire to learn and grow. My current goals include enhancing my problem-solving skills, contributing to impactful technologies, and expanding my knowledge across the evolving tech landscape.

PROFESSIONAL EXPERIENCE

Software Engineering Intern, *Vetstoria* *July 2023 - July 2024*

- Worked on the real-time online appointment booking system implementing new features and resolving issues.
- Worked on the fill rate dashboard analytics system implementing new features both user and developer ends and resolving existing issues.
- Worked on the company system migrations.
- Worked on AWS dashboards for customer analytics.

Technologies : PHP, Phalcon, ReactJS, VueJS, TailwindCSS, SQL, Python, Bash, AWS, Docker, Postman

Freelance Developer, *Upwork* *Dec 2020 - Present*

- Delivered high-quality, streamlined software solutions tailored to diverse client requirements.
- Collaborated with a wide range of clients, developing projects from simple small-scale applications to complex enterprise-level systems.
- Demonstrated strong adaptability, communication, and problem-solving skills in remote and deadline-driven environments.

Technologies : SaaS, Web Development, Designing

EDUCATION

BSc.(Hons) Computer Science *Jan 2022 - Present*

University of Westminster

- Currently a final year undergraduate following BSc. Computer science degree in Informatics Institute of Technology (Sri Lanka) affiliated with University of Westminster (UK).

BSc.(Hons) Physical Science Undergraduate (On Hold) *Nov 2022 - Present*

South Eastern University of Sri Lanka

- Currently a third year undergraduate following BSc. Physical Science degree in South Eastern University of Sri Lanka.

G.C.E Advanced Levels *2007 - 2020*

Kingswood College Kandy

- G.C.E. Advanced Level - Physical Science stream 2020
  Physics - C Chemistry - C Combined Mathematics - S General English - A

PROJECTS

EmotiLive : Real Time Student Monitoring System, *Research project* *(Aug 2024-April 2025)*

EmotiLive is an ML based system designed to monitor and analyze student engagement and emotional behavior in real time during classroom sessions.

Technologies : Python, TensorFlow, OpenCV, ESRGAN, NextJS, Keras

Dice Maniacs: Android Game *(Sept 2022-Feb 2023)*

A Dice Roller game mobile application built using Android Studio

Technologies : Kotlin, Android Studio, XML

Prettify : Face Enhancement Application, *Group project*   *(Oct 2022-April 2023)*

A face beautification application focused on acne detection and removal using a deep CNN model and digital inpainting. With the integration of CICD Pipeline, building, testing and deployment has been automated.
Technologies : Python, Flutter, Dart, Firebase, Docker, Jenkins

Custom-color-contrast-checker   *(March 2024-Aug 2024)*

A NPM package designed to check the contrast ratio between colors and verify their compliance with WCAG accessibility standards.
Technologies : Python, NodeJS, JavaScript, HTML5

DBSCAN Algorithm for Stock Investment Portfolios   *(Nov 2024-Jan 2025)*

Explores major clustering techniques used in creating stock investment portfolios in the finance domain. DBSCAN Clustering algorithm is explored to analyze the behavior of the algorithm in such scenarios.
Technologies : Python, scikit-learn, DBSCAN Algorithm

SKILLS

Tech Skills
- Backend: Python, PHP, Java, C++, Bash
- Frontend: React, NextJS, Vue, Flutter TailwindCSS
- Other: SQL, MongoDB, Docker, Git, Jenkins

Soft Skills
- Problem Solving and Analytical Thinking
- Excellent Communication
- Leadership and Teamwork

EXTRA-CURRICULAR ACTIVITIES

- President Scout of Sri Lanka 2019.
- Member of the Rotaract Club of IIT.
- Member of the AISECC Sri Lanka.
- Member of the school senior prefect court.
- Member of the school swimming team.
- Member of the school basketball team

AWARDS AND PARTICIPATIONS

- Presidents Scout Award Sri Lanka - 2019
- Microsoft Imagine Cup Participant - 2023
- CodeSprint 7.0 by IEEE IIT - 2023
- CodeRush Hackathon - University of Moratuwa - 2024

INTERESTS

Backend development, DevOps practices, Machine learning and artificial intelligence, Deep neural networks, Web Development

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REFERENCES

Nipuna Mohotti
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