



AYESH VININDA

WEB DEVELOPER | AI ENTHUSIAST

ABOUT ME

A dynamic and proactive Computer Science & Engineering Undergraduate, I bring technical proficiency and a strong team player mindset to the table. With exceptional leadership skills and a keen eagerness to learn, I am driven by a passion for exploring new frontiers in technology.

EDUCATION

2020-present	University of Moratuwa BSc in Computer Science & Engineering Currently a final year undergraduate with a 3.84 out of 4.2 GPA. Dean list in semester 1,2,3,4 and 6.
2018-2019	IJSE Institute of Software Engineering Diploma in Comprehensive Master Java Developer.(CMJD)
2009-2018	Mahinda College Galle School education up to A/L Got 3 A passes in A/L including Mathematics ,Physics and Chemistry.

WORK EXPERIENCE

Jan 2023 - June 2023

AI & Software Engineering Intern

@ Kingslake Engineering Systems / Sri Lanka

- Contributed to the development of a Fashion Similarity Detection System for the garment industry, applying Deep Neural Network approaches.
- Auto Route Planning project for Transport Management System.
- Revamping Access Management System with IAM, API Gateway, and other microservices in the Kingslake Framework.
- Contributing Database design of Newer Transport Management System.

FINAL YEAR PROJECT - RESEARCH

Novel Approach to Generate Multi Line Patches July 2023- present

The ongoing leading research project in Automated program repair domain focuses on automate bug fixing in programs by multi line patch generation. Research is addressing 3 key limitations in existing APR domain by proposing novel transformer based approach. It solves challenge of identifying partial patch correctness, providing all buggy lines in the same context and capturing semantic dependencies between generated patches.

CONTACT ME



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<https://medium.com/@ayeshgk>



<https://ayeshgk.github.io/>

SKILLS

Languages

- Java
- Python
- PHP
- JavaScript
- TypeScript

Web Development

- Spring boot
- NodeJS
- Flask
- ReactJS
- FastAPI
- NextJS

ML/AI/DS

- Tensorflow
- pytorch
- Scikit-learn
- PowerBI

Databases

- MySQL
- Postgres
- MongoDB
- Firebase

Others

- Docker

ACHIEVEMENTS



Participated and got 18th place in Hacktitude 2021



Participated in IEEEExtreme 15.0 and got Global rank 214 Country rank 14



Participated in MoraXtreme 6.0 and got 12th place

INTERESTS



Web development



Deep learning, NLP & Computer Vision



Big data and Cloud Computing



System Designing

LANGUAGES



English - Full Professional Proficiency



Sinhala - Native Proficiency

REFEREES

Laksiri Fernando
Vice President
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PROJECTS

API Gateway Monitoring System Aug 2022 - Dec 2022

API Gateway performance monitoring system, integrated with anomaly detection models with comprehensive web based application to understand valuable insights, system behaviours and potential issues. Combining tailored anomaly detection models for diverse parameter sets, implementing a cross-feature analysis to enhance accuracy.

Parkinson Disease Detection System Apr 2022 - Jul 2022

Parkinson Disease Detection System, utilizing machine learning within a web application to diagnose Parkinson disease in the community using hand-drawn images. Flask RESTAPI used to featuring machine learning model for detecting disease. Engineered Node.js application for handling disease detection connecting with the MySQL database through the Prisma ORM.

Banking System Jan 2022 - Jul 2022

Developed a comprehensive banking web application using Node.js, Express and MySQL for consistent functionality across all bank branches and customer interactions. Project applied advanced SQL queries, events, triggers and transactions considering optimized data management. System managed various user registrations and roles within the system, incorporating automated handling of Fixed Deposits.

Customer Churn Dashboard Jan 2022 - Jul 2022

Development of a Customer Churn Dashboard designed to empower company managers with valuable insights for strategic decision-making. PowerBI, an embedded interactive dashboard used to analyze customer attrition with predictions. Additionally, system consist with Firebase authentication and Firestore to manage decisions.

Clinical Trial Management System Sep 2021 - Dec 2021

Clinical Trial Management System is a web application for pharmaceutical companies to manage clinical trial processes efficiently. Utilizing PHP and MySQL, the system ensures consistent data management, tracking, and collaboration throughout the entire clinical trial lifecycle.

Vehicle Rental Service System Sep 2021 - Dec 2021

Contributed to the development of web application for a vehicle rental service, with frontend responsibilities using React.

Audirea - Music generator

Developed a music-generator, utilizing deep learning techniques with LSTM in TensorFlow.

Flower Exchange Project Dec 2023

Flower Exchange Project developed for London Stock Exchange Group (LSEG) which designed to streamline the flower exchange process using C++. Project aimed to facilitate transactions between buyers and sellers.

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