

DINOJAN VIVEKANANTHARASA

dinojv21@gmail.com • 0779703874 • linkedin.com/in/dinojan • github.com/Dinojan9901

SUMMARY

A Computer Engineering undergraduate with a strong foundation in software development, **full-stack** technologies, **machine learning**, **artificial intelligence**, database management, and hardware systems. Proven experience in developing and optimizing **web and mobile applications**, enhancing backend performance, applying data science methodologies, and integrating hardware systems. Actively seeking a job opportunity to leverage expertise and contribute to innovative solutions in a dynamic technological environment starting April 2025.

EDUCATION

BSc.Eng (Honours) in Computer Engineering

Graduating November 2027

Faculty of Engineering, University of Ruhuna, Hapugala, Galle, Sri Lanka

School - **V/Vavuniya Tamil Madhya Maha Vidyalayam**

Relevant coursework: Data Structures and Algorithms, Software Engineering Principles, Problem Solving with Algorithms, Computer Architecture and Organization, Object Oriented Design Pattern and Principles, Operating Systems and Network Programming

Followed Soft Skill Development (2022-2024)

TECHNICAL SKILLS

Programming: Python, C, C++, Java, JavaScript, HTML/CSS, SQL

Web Development: React.js, Node.js, Express.js

Mobile Application Development: Flutter, Dart

Software Development and IDEs: Visual Studio, IntelliJ IDEA, VS Code, Eclipse, Microchip Studio, MPLAB IDE

Data Analysis and Statistics: Google Colab

Design and Modeling Tools: MATLAB, AutoCAD, Microsoft Office, 3DS Max

Database Management: MongoDB, MySQL

Networking and Simulation Tools: Cisco Packet Tracer, Proteus

Version Control and Collaboration: Git, GitHub

Operating Systems: Linux, Windows

Certifications: IEEE INSL Southern Provincial Competition – 30th October 2024 - Participant

NON-TECH ABILITIES

Project Management: Workload Balancing, Self-motivated, Flexibility

Leadership Skills: Team Player, Interpersonal Skills, Communication

Creative Skills: Capability to Moderate and Announce

PROJECTS

Automated Paper Grading System

Developing a **Next.js** and **Django-based** web application integrated with **PostgreSQL** to automate short answer grading currently an ongoing project in a four-member team

Library Management System

Developing a Library Management System using the **MERN** stack with **DevOps** integration as part of a 2-member team (ongoing)

ECG Image Classification

ECG image **classification** system using **CNN** for heart disease prediction developed by a 4-member team and ongoing

Smart Home Automation System

Smart home automation system using **embedded** systems developed by a 4-member team and ongoing

File Sharing Application

Developed a **Java** file sharing application using **sockets and threads** for concurrent client connections as part of a 3-member team

Healthcare Mobile Application

Designed and implemented a **Flutter and Dart**-based mobile application for doctor patient interactions and appointment scheduling developed by a two-member team

Room Occupancy Detection

Applied **machine learning** techniques to analyze IoT sensor data for classifying room occupancy status developed by a two-member team

Contact Management System

Developed a **full-stack MERN** application to efficiently store update and manage contact details built individually

Common Emitter BJT Amplifier

Designed and built an electronics project focused on signal amplification using a **common emitter BJT** configuration completed by a four-member team

Hostel Management System

Created a database-driven system using **MySQL** to manage hostel operations including room allocation and resident records as part of a three-member team

Patient Registration System

Designed and implemented a hybrid mobile and desktop application using **.NET MAUI Blazor** for efficient patient data management developed by a two-member team

Personal Finance Tracker App

Built a web-based application using **HTML JavaScript and CSS** to help users track income and expenses developed by a two-member team

Phone Book Application

Developed a **C++** program for managing contacts including adding searching and deleting entries as part of a three-member team

VOLUNTEER EXPERIENCE

All University Students' Development Association Vavuniya, : Treasurer	May 2021 – April 2024
IEEE Student Branch in Ruhuna, : Member	Sep 2023 – Dec 2024
IESL, : Member	Apr 2024 - present
CCSSD, : Delegate Coordinator - Mock Interview	2023
V/V.T.M.M.V, : Senior Prefect	2017-2018

ACHIEVEMENTS

- Participated in the Open Category of the Galle Division FIDE 100 Commemorative Chess Event 2024
- 3rd Runner-Up in Provincial Level Chess Competition (Under 19 Boys) in Group School Sports, 2015 and 2016
- Participated in IEEE Xtreme 18.0 (2024), a global 24-hour programming competition, solving algorithmic challenges as part of a 3-member team

REFERENCES

- **Dr. Kushan Sudheera**
Senior Lecturer
Department of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna
Contact: +94719693164
Email: kushan@eie.ruh.ac.lk
- **Dr. Nadeesha Sandamali**
Senior Lecturer
Department of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna
Contact: +94719693318
Email: nadeesha@eie.ruh.ac.lk