

DINITHA WICKRAMASINGHE

Computer Science Undergraduate

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Portfolio

SUMMARY

Final year Computer Science undergraduate with a solid foundation in software development, AI/ML, and IoT systems. Experienced in developing full-stack web applications, robotics projects, and real-time image recognition solutions. Strong at problem-solving, quick learning, and applying innovative approaches to technical challenges. Seeking opportunities to contribute to impactful projects as a software engineer or Data Analyst while continuously expanding technical expertise.

EDUCATION

2023 - 2025

University of Plymouth

BSc (Hons) in Computer Science

Final year Individual Project, Full Stack Development, Artificial Intelligence & Machine Learning, Big Data Analytics, Human Computer Interaction, Computer Graphics and Visualization

Computational Theory and Statistics for Computing, Mobile Application Development, Information Management and Retrieval, Software Development Tools and Practices, Internet of Things.

2022 - 2023

NSBM Green University

BSc (Hons) in Computer Science - 1st year

Algorithms and Data Structures, Programming in C, Object Oriented Programming with C#, Mathematics For Computing, System Analysis and Design, Database Management Systems, Web-Based Application Development, Computer Architecture

2007 - 2020

**Mahanama College
Colombo**

G.C.E Advanced Level - Physical Science

Combined Mathematics, Physics, Information Technology

SKILLS

- **Programming Languages:** C, C#, Java, Python
- **Web Development:** HTML, CSS, JavaScript, React.js, Next.js, Express.js
- **Mobile Development:** Flutter, Firebase
- **Tools:** Git, GitHub, Docker, Jupyter, Linux Terminal, VS Code
- **AI/ML:** TensorFlow, PyTorch, OpenCV, Scikit-learn
- **Databases:** MySQL, MongoDB, Firestore
- **Embedded/IoT:** Arduino, MicroPython

PROJECTS

AI-Powered Paddy Disease Detection & Treatment Rover (Plymouth Final Year Project)

Designed and built an AI-powered agricultural rover that detects bacterial infections in rice plants using real-time image recognition (YOLOv8) and sprays targeted treatment. Integrated GPS-guided navigation with NVIDIA Jetson Nano and Arduino for autonomous operation.

Code: <https://github.com/dinithaw/Final-Year-Project>

3D Furniture Configurator + E-commerce Website

Built a 3D furniture configurator using Three.js and Next.js, allowing users to customize color, texture, and size of furniture items. Integrated into a full e-commerce workflow.

Code: <https://github.com/dinithaw/3D-furniture-configurator>

Demo: <https://3dconfig-dlwickramasinghe.vercel.app/>

TerraTrack IoT Rover

Developed an IoT rover equipped with soil, light, air, temperature, and humidity sensors. Features waypoint-based GPS navigation and a custom Android app. Sends real-time data to a server via GSM module for visualization and analysis.

Code: <https://github.com/dinithaw/TERRATRACK>

Spendly – Budget Management Mobile App

Designed a cross-platform mobile budget app using Flutter and Dart. Supports expense tracking, financial reporting, and intuitive user interface for personal finance management.

Code: <https://github.com/dinithaw/Spendly>

Green Gym Management System

Developed a desktop application with C# that handles gym membership registration, class scheduling, and payment processing. Backend uses SQL Server for reliable data storage.

Code: <https://github.com/dinithaw/GymManagement>

Clothing E-commerce Platform

Created full-stack e-commerce website featuring advanced search, real-time inventory management, payment gateway integration, and responsive UI using React, Node.js, Tailwind CSS

Code: <https://github.com/dinithaw/MERN-Fullstack-Website>

Tractroparts.lk E-Commerce platform

Created full-stack e-commerce website featuring advanced search, real-time inventory management, payment gateway integration, and responsive UI using React, Node.js, Tailwind CSS

Code: <https://github.com/dinithaw/Spare-Parts-Website>

REFERENCES

Prof. Chaminda Wijesinghe

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