



THARUSHA MANOHARA

COMPUTER ENGINEERING UNDERGRADUATE

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PROFESSIONAL SUMMARY

Computer Engineering student with a strong passion for bridging the gap between hardware and software. Specializing in high-performance Web Applications (React/Node.js) and Embedded IoT Solutions (Arduino/C++). Demonstrated ability to deliver freelance projects and engineer automated systems. Eager to apply technical skills in a challenging engineering environment.

EXPERIENCE

Freelance Web Developer

2022 - Present

Remote

- Developed custom, responsive web solutions for diverse clients using HTML5, CSS3, and JavaScript.
- Delivered optimized front-end architectures focusing on performance and user experience.
- Collaborated with clients to translate business requirements into functional digital products.

KEY PROJECTS

Smart Parking System (IoT)

Academic Project

Engineered an automated parking management system using **Arduino Mega** and **Ultrasonic sensors**. Implemented real-time gate control via Servo motors and an LCD status display for optimized slot allocation.

Portfolio V2

Personal Project

Designed a high-performance personal website featuring **Particles.js** background, 3D tilt effects, and a custom "Quake-style" command terminal. Utilized **GSAP** for advanced animations.

E-Commerce UI

Personal Project

Built a responsive front-end architecture for an online store using **React** and **Tailwind CSS**. Focused on mobile-first design, cart functionality, and product filtering logic.

EDUCATION

BSc. Computer Engineering

TECHNICAL SKILLS

Languages C++, JavaScript (ES6+), Python, HTML5, CSS3

**General Sir John Kotelawala Defence University
(KDU)**

2025 - Present

Frameworks React.js, Node.js, Tailwind CSS

Hardware / IoT Arduino, ESP32, Raspberry Pi, Proteus

CCNA: Introduction to Networks

Cisco Networking Academy

Tools Git, GitHub, VS Code, Figma, Firebase

2024