IHAN HANSAJA

Software Engineering Undergraduate | Full Stack Developer

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About

Passionate about Full-Stack web development, I build dynamic, scalable, and user-friendly websites using modern web technologies. I excel at solving technical challenges through innovation and collaboration, ensuring seamless and impactful digital experiences.

Education

(G.C.E.) Ordinary Level and Advanced Level — Jan 2013 – Feb 2022
D.S. Senanayake College, Colombo 07

B. Sc. (Hons) in Software Engineering — Oct 2022 – Present
CINEC campus, Malabe

Web Development Projects

Serendib Warehouse Management System — Dec 2024 – ongoing
Developed an AI-driven system to optimize warehouse Operations using React.js, Express.js, Node.js and MySQL.

Zenofy Web Application — Nov 2024 – ongoing
Developed an e-commerce site for projector accessories with a chatbot using HTML, CSS, JavaScript and Chatbase platform.

Ravens quill Bookstore Web Application — Apr 2025 – May 2025
Developed a bookshop web application using google books API, RESTful API services, React.js, Express.js, MongoDB, Three.js and Node.js.

Italy Guider Web Application — May 2025 – Jun 2024
Built AI-Powered travel app with TTS translator, custom AI chatbot, Google Maps navigator, and location recommender using REST APIs, Next.js, TypeScript, and Firebase.

HeritageLink Website — Jul 2024 – Sep 2024
Developed an e-commerce site to buy and sell Sri Lankan handcrafts with Real-time updating dashboard using HTML, CSS, JavaScript and MySQL.

Admin Dashboard with the Chatbot Web Application — Mar 2025 – Mar 2025
Developed an admin dashboard using React.js and a chatbot in Python that provides responses using real-time data from the Firebase database. the chatbot was built using the Gemini API.

Skills

- Programming
- Mathematics
- Artificial Intelligence
- Data Structures
- 3D design
- UI/UX Design
- Problem Solving
- Communication
- Teamwork
- Leadership
- Creativity

Programming Languages

- Python
- JavaScript
- Java
- R
- C/C++
- PHP
- Android

Web Technologies

- HTML
- CSS
- Tailwind CSS
- React.js / Next.js
- Angular.js
- Three.js
- Express.js / Node.js
- WordPress
- Firebase
- SQL
- MongoDB

UI/UX Projects

Green Urban City Web 3.0 Application   May 2024 – May 2024

Designed a user interface for a Web 3.0 application using Figma, focusing on sustainable urban development. This project was showcased at the IX-24 UI/UX Designathon.

CINEC campus website   Dec 2023 – Mar 2024

Designed a user interface for the CINEC campus website. The Faculty of Computing selected a team of students to redesign and update the website.

AI Project Management Tool   Nov 2023 – Dec 2023

Designed a user interface for an AI project management tool which we developed.

Researches

- optimizing OFDM technology network performance using Reinforcement Learning for 5G and beyond (Best research of Faculty of Computing)
- leveraging AI for mental health: Utilizing Llama 3.1 to detect and prevent mental health crises among social media users
- Using a combination of AI and VR to solve problems in the architectural design modeling

Extracurricular Activities

E-Sports player at CINEC E-Sports team

Participated in national and inter-university e-sport tournaments, sharpening strategic thinking and teamwork skills.

Competitor in IX-23 and IX-24 UI/UX Designathons

Competed in inter-university UI/UX hackathons organized by IIT Campus, enhancing creativity and problem-solving skills.

Developer of VR Worlds for CINEC EDU EXPO 2023

Developed immersive 3D worlds using Unity and Blender for CINEC EDU EXPO 2023, contributing to the exhibition's most successful project.
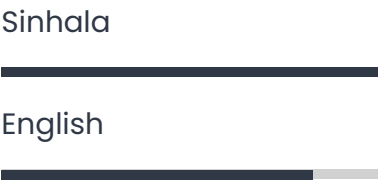
References

Mr. Dhishan Dhammearatchi
Senior Lecturer, Faculty of Computing, CINEC campus.
0773578609, Dhishan.Dhammearatchi@cinec.edu

Mrs. Dinushika Jayathissa
Lecturer in English, Faculty of Humanities and Education, CINEC campus.
0712718585, Dinushika.jayathissa@cinec.edu

Tools and Technologies

- GitHub
- Docker
- Blender
- Unity
- Figma
- Photoshop
- Illustrator
- Premiere Pro
- N8N

Languages

Sinhala

English

Interests

- Reinforcement Learning
- Deep Learning
- Virtual Reality
- Extended Reality
- Blockchains
- Cryptocurrency
- Coding
- Cyber Security
- Gaming