

# CHETHANA MARASINGHE

(BSc) in Computer Science and Technology (Undergraduate)



+9471 882 4836

Chethana Marasinghe

“Thurusewana”, Karandupana,  
Molagoda, Kegalle

Chethana Marasinghe

marasinghes850@gmail.com

Chethana Marasinghe

Motivated and detail-oriented undergraduate with experience in real-world projects and proven leadership in tech communities. Skilled in team collaboration, problem-solving, and innovation, with a strong record of hackathon participation and event organization. Eager to apply my abilities in a professional environment while continuing to learn and grow.

## Education

- BSc (Hons) in Computer Science and Technology (Reading)** 2022 - Present  
Uva Wellassa University of Sri Lanka. (Current GPA - 3.74 )
- DiTEC Assured Diploma in Information Technology** 2020 July - 2021 Feb  
ESOFT Metro College
- G.C.E Advanced Level Examination (Bio Science)** 2020  
Kegalu Balika Vidyalaya - Kegalle

## Projects Experience

### ● CoralStay Hotel & Reef Tour Booking System

A web application dedicated to seamless hotel and reef tour booking, empowering users to explore, reserve, and manage their stays with ease. The platform features a dynamic React-based frontend for guests and an intelligent real-time chatbot for instant assistance, all supported by a robust Express.js backend with smart pricing, availability tracking, and automated email invoicing.

A custom AI chatbot designed to enhance the CoralStay platform by providing real-time, personalized assistance for hotel and reef tour bookings. The chatbot features a React frontend communicating via REST API with a secure Node.js and Express backend, integrated with OpenAI for intelligent responses and MongoDB for persistent chat history and user personalization.

- Technologies: MERN Stack, JWT Token, OpenAI API, Tailwind, Nodemailer

### ● A Landmark-Based Augmented Reality Navigation System

An interactive Augmented Reality (AR) solution designed for smart navigation. This project transforms a university environment into a virtual guide using AR.js, Three.js, and QR code technology. The system enables students and visitors to navigate campus facilities and access virtual exhibitions by scanning real-world landmarks.

- Technologies:
  - AR.js – Browser-based marker detection for AR experiences.
  - Three.js – Rendering 3D models and animations.
  - WebXR / WebGL – For immersive web-based AR rendering.
  - JavaScript, HTML5, CSS3 – Frontend development for mobile-first design.

### ● Online Healthcare Platform

A web application dedicated to transforming digital healthcare, empowering patients to manage appointments, access medical records, and connect with doctors remotely. The platform features a responsive interface for patients and a secure backend for healthcare providers and hospital administrators, designed to streamline medical communication and improve healthcare accessibility.

- Technologies: HTML, CSS, Bootstrap, JavaScript, PHP, MySQL

## ● Book Review Platform

A web application dedicated to book enthusiasts, empowering users to discover, review, and manage their favorite books. The platform includes a Next.js-based user interface for readers and a robust admin panel for content management, all supported by a secure backend developed using Django REST Framework.

- Technologies: Django, DRF, PostgreSQL, Next.js, TypeScript, Tailwind CSS, JWT

## ● Online Course Registration System

A web application dedicated to simplifying online course registration, empowering users to easily browse and enroll in courses while giving admins full control over course management. The platform features a JSP-based interface for both students and administrators, supported by a robust backend and MySQL database integration.

- Technologies: JSP (Java Server Pages), Servlet, MySQL, Session-based Authentication

## ● UI/ UX Projects

Book Review Web App UI \_Figma- [View Design](#)

Weather Forecasting Web App UI \_Figma- [View Design](#)

WriteCo Company Website UI – Figma (Ongoing) - [View Design](#)

---

## Technical Skills

### Backend Technologies

- J2EE
- Express(Node.js)
- PHP
- JavaScript
- C/C++

### Frontend Technologies

- React
- Tailwind CSS
- TypeScript
- HTML/CSS
- Bootstrap

### Databases:

- My SQL
- MongoDB

### Other:

- GitHub
- Postman
- JWT Authentication
- Figma
- Canva

### AI Tools:

- OpenAI API

---

## Achievements

Selected for the Dean's List – 2nd Year 1st & 2nd Semester

Python for Beginners course by the University of Moratuwa - Open Learning Platform

---

## Volunteering & Extracurricular Activities

- Member of Organization Committee of the Uva Extreme Hackathon collaborate with IEEE
- Member of Secretary team of INSL Uva 24 Provincial Programs
- Currently serving as the Publicity Lead at Women in FOSS (WiF), Uva Wellassa University of Sri Lanka
- Participated in Inter University Hackathon collaborate with IEEE students branch - 2022
- Participated in Uva Xtreme Hackathon - 2024

---

## References

### Dr. Vihara Jayakody (PhD)

Lecturer  
Department of Computer Science and Informatics  
Faculty of Applied Sciences  
Uva Wellassa University  
Badulla  
Sri Lanka  
Email: [vihara@uwu.ac.lk](mailto:vihara@uwu.ac.lk)

### Ms. K.A.A. Chathurangi

Lecturer (Probationary)  
Department of Computer Science and Informatics  
Faculty of Applied Sciences  
Uva Wellassa University  
Badulla  
Sri Lanka  
Mobile: (+94)774086621  
Email: [ayesha.c@uwu.ac.lk](mailto:ayesha.c@uwu.ac.lk)