

MADHUSHANKHA DE SILVA

Computer Science and Engineering Undergraduate at University of Moratuwa

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Summary

Versatile Web Developer and AI/ML Engineer with expertise in building dynamic, user-friendly web applications and developing cutting-edge AI-driven solutions. Skilled in modern web technologies like HTML, CSS, JavaScript, React, and Node.js, alongside strong proficiency in Python, TensorFlow, and PyTorch for machine learning and AI model development. Experienced in integrating APIs, optimizing website performance, and deploying machine learning models for tasks like natural language processing and computer vision. Adept at working with large datasets, cloud platforms (AWS, GCP), and MLOps for scalable and maintainable solutions. Passionate about combining web development and AI/ML to deliver impactful, innovative digital experiences.

Experience

University of Moratuwa	Sri Lanka
Student	02/2023 - Present

Education

University of Moratuwa	01/2023 - 12/2028
Bachelor's degree, Computer Science and Engineering	
Dharmasoka College - Ambalangoda	03/2008 - 02/2022
Physical Sciences	

Languages

English Advanced	Sinhalese Advanced	Tamil Beginner
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Projects

Airline Reservation System	University Of Moratuwa
	06/2024 - 10/2024

Developed a comprehensive airline reservation system, focused on building a platform for seamless airline booking and management.

Key Contributions

Designed a well-structured database by optimizing relational schema to manage flights, bookings, and user data efficiently.

Developed backend APIs with Node.js and MySQL for efficient data handling.

Technologies: MySQL, Node.js, Express.js, React.js, Lucid chart

GitHub: De-Silva-Madhushankha/Airline-Reservation-System

Database Design: <https://bit.ly/3ZUbevm>

Projects

My Campus Home

Location
2025 - Present

Conceptualized and developed a platform specialized in finding apartments, boarding houses, rooms convenient to Sri Lankan universities.

Key Contributions

Designed the project roadmap, defined the system architecture, and led all phases of development from ideation to deployment.

Built a responsive frontend using React and Tailwind CSS for an intuitive user experience.

Developed and deployed backend APIs using Node.js and MongoDB, integrating geolocation and filtering features.

Technologies: MongoDB, Node.js, Express.js, React.js

GitHub: [De-Silva-Madhushankha/MyCampusHome](#)

Skills

Node.js Express.js React.js, Java, Python

Project Management, Database Design, Program Management, Team Leadership, Problem Solving

Networking, Artificial Intelligence (AI), Machine Learning, Deep Learning