

Motivated Computer Science & Engineering undergraduate at the University of Moratuwa with a 3.60 GPA and strong expertise in full-stack development, machine learning, algorithms, and data structures. Proven track record in building scalable web applications and AI-driven tools using technologies like React.js, Node.js, Python, and databases (MongoDB, PostgreSQL). Eager to contribute to innovative tech projects through a software engineering internship, applying problem-solving skills, leadership, teamwork, time management, and rapid learning to deliver high-impact solutions.

## Work Experience

### MoraSpirit

Assistant Head of Web & Tech Pillar

2024 – Present

Colombo 06, Sri Lanka

- Led the end-to-end development and deployment of moraspirit360.com, a core organizational platform enhancing user engagement and operational efficiency.
- Managed and optimized the full technical infrastructure, collaborating with leadership to resolve issues and implement improvements.
- Guided two co-chairs in executing SpiritX 2025 Hackathon, providing technical oversight and ensuring seamless event delivery.
- Mentored and onboarded new members in the Web & Tech Pillar, accelerating team skill development and fostering collaboration.

## Projects

### AI-Powered O/L Mathematics E-Learning Platform

2025 – Ongoing

Next.js, Node.js, Python, Nest.js, PostgreSQL, MongoDB, Neo4j, WebSockets

Engineered a scalable microservices-based platform delivering AI-personalized learning paths, a 24/7 chatbot tutor, and a teacher-student marketplace for Sri Lankan students.

### RPAL Compiler & Interpreter

2025

Python, OOP, Data Structures & Algorithms

Built a full RPAL interpreter from scratch, applying compiler theory to parse, evaluate, and execute recursive programs, demonstrating proficiency in language processing and algorithmic efficiency.

### Online Train Ticket Booking System

2024

Ballerina, React.js, MongoDB

Developed a concurrent, cloud-native backend with Ballerina integrated to a React.js frontend, enabling secure admin controls and efficient train scheduling management.

### Mystic Mayhem (OOP Console RPG Game)

2024

Java, OOP, Data Structures & Algorithms

Collaborated in a team to design and implement a console-based RPG, incorporating object-oriented principles and algorithms for gameplay mechanics, resulting in a fully functional game.

### Human Resource Management System (HRMS)

2024

Express.js, Node.js, MySQL, React.js, Tailwind CSS, REST APIs

Designed and deployed a full-stack HRMS with secure backend logic and responsive frontend, streamlining HR functions like employee management and data processing.

## Education

**Bachelor of Science in Engineering (Honours)***Major in Computer Science & Engineering**Current GPA: 3.60 / 4.0**Feb 2023 – May 2027**University of Moratuwa*

**Relevant Coursework:** *Data Structures & Algorithms (A), Programming Construction (A), Operating Systems (B+), Database Systems (B+), Programming Languages (A), Theory of Computing (A)*

**Awards:** *Dean's List, Semester 1 (SGPA: 3.89)*

**G.C.E. Advanced Level Examination (Physical Science Stream)***Results: 3 'A' passes in Combined Mathematics, Physics, and Chemistry**2021***Technical Skills**

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**Programming Languages**

Java, JavaScript, Python, C++

**Web & Frameworks**

React.js, Node.js, Express.js, Nest.js, Next.js, Ballerina, HTML, CSS, Tailwind CSS, REST APIs, WebSockets

**Data & ML**

Scikit-learn, Pandas, NumPy, PyTorch, Machine Learning Algorithms

**Databases**

MongoDB, MySQL, PostgreSQL, Neo4j

**DevOps & Cloud**

AWS (with Terraform), Docker

**Tools & Other**

Git, GitHub, OOP, Data Structures &amp; Algorithms

**Soft Skills**

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Leadership, Teamwork, Time Management, Rapid Learning and Quick Adaptation

**Competitions & Extracurriculars**

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- Competed in the national Ballerina Coding Competition 2024.
- Participated in MoraXtreme 9.0, a 12-hour university hackathon.
- Coordinated interactive mathematics games (e.g., Circle of Fate) for MoraMaths society at Exmo Exhibition.
- Volunteered as a Mathematics Teacher for MoraMaths Circle and Sasnaka Sansada Foundation, tutoring students and improving comprehension through hands-on sessions.

**References**

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**Dr. Adheesha Wijayasiri**

Senior Lecturer

Course Coordinator - MBA in IT

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