Devinda Dilshan

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Summary

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 2024 – Present

Assistant Head of Web & Tech Pillar

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.
- Implemented real-time communication features using WebSockets and integrated multiple database systems for optimal data management and performance optimization.
- Developed machine learning algorithms for adaptive content recommendation and integrated Neo4j graph database to model complex learning relationships and knowledge dependencies.

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.
- Designed comprehensive lexical analysis, syntax parsing, and semantic evaluation modules with robust error handling and optimization techniques.

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.

• Applied advanced design patterns including Strategy and Factory patterns to create modular character classes, battle systems, and inventory management features.

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.
- Implemented automated payroll calculations, employee attendance tracking with biometric integration, and comprehensive reporting dashboards with data visualization charts.

Education

Bachelor of Science in Engineering (Honours)

Feb 2023 – May 2027

Major in Computer Science & Engineering

University of Moratuwa

Current GPA: 3.60 / 4.0

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)

2021

Results: 3 'A' passes in Combined Mathematics, Physics, and Chemistry

Technical Skills

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 & Algorithms

Soft Skills

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

Competitions & Extracurriculars

- 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

Dr. Adheesha Wijayasiri

Senior Lecturer Course Coordinator - MBA in IT

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