

Dehemi Weerakoon

Computer Science Undergraduate

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Profile

Motivated Computer Science undergraduate with hands-on experience in **software development, backend engineering, and machine learning**. Passionate about developing full-stack applications and data-driven solutions. Strong problem-solving skills, teamwork, and the ability to deliver projects efficiently. Seeking opportunities to apply technical expertise in real-world projects while continuously learning and improving.

Education

Bachelor of Science - BSc(Hons) in Computer Science

2022 – present

University of Kelaniya, Sri Lanka

Computer Science Specialization with Data Science - **Current GPA - 3.97**

Advanced Level (G.C.E)-2020

Physical Science Stream - **Z Score 1.5648**

Technical Skills

Languages: Java | Python | C# | C | JavaScript | GO | HTML | CSS

Frameworks: React JS | Node JS | Next JS | Spring Boot | Tailwind | Bootstrap | Flask

Databases: MySQL | PostgreSQL | MongoDB | PL/SQL

Tools: Github | Postman | Docker | Vercel | PythonAnywhere | Minikube

Concepts: Object Oriented Programming | Data Structures | Machine Learning

Soft Skills

- Critical Thinking
- Problem Solving
- Leadership
- Team Player

Projects

Point Of Sales (POS) system

Spring Boot | MySQL | React JS | Spring Security |

- Developed the back end using **Spring Boot** with **MySQL** as the database.
- Implemented **Spring Security** for **user authentication** and Bearer token for secure access.
- Designed and documented **REST APIs** using Swagger.
- Built the front end using **React JS** for a seamless user experience.

The Diabetes Predictor

Next JS | Python | Machine Learning |

- Enhanced a diabetes **risk prediction model** using **Random Forest** with **95% accuracy** in **Python (Scikit-learn)**.

- Built a **Flask back end** to process predictions and integrated it with a **Next JS** front end for a seamless user experience.
- Deployed the **back end** on **PythonAnywhere** and the **front end** on **Vercel** for accessibility and scalability.

Book Management System [↗](#)

GO | *Minikube* | *Docker*

- Developed a **Book Management System** using **Go (Golang)** with full **CRUD** operations and **text file-based data storage**.
- **Containerized** the application using **Docker** and **deployed** it on a local **Kubernetes cluster** with **Minikube** for testing and development.
- Applied **Kubernetes concepts** such as **Pods** and **Services** via **Minikube CLI**, enhancing deployment and orchestration skills with using **YAML** manifest files.

Movie App [↗](#)

Node JS | *Mongo DB* |

- Implemented **JWT-based authentication** for secure user login and access control.
- Granted **role-based** special operations for authenticated users.
- Integrated **MongoDB** as the database for efficient data management.
- Developed the front end using **React JS** with **Bootstrap** for responsive UI design.

Library Management System [↗](#)

C# | *MySQL* |

- Advanced a **Library Management System** using **C#** and **MySQL Server** to streamline book, member, and transaction management.
- Implemented features for adding, updating, and deleting books, tracking borrowed and returned books, and managing member registrations.
- Enabled book search functionality, late return fine calculation, and report generation for book circulation and overdue records.

Certificates

- Machine Learning with Python(ML0101EN, provided by IBM) [↗](#)
- Python 101 for Data Science(PY0101EN supplied by IBM) [↗](#)
- Web Design for Beginners(University Of Moratuwa)
- Python for Beginners(University Of Moratuwa)

Languages

- Sinhala (Native)
- English

Organisations

Computer Science Student Association
Member

09/2022 – present

Computer Science Student Association
IdeaForge - Organizing Committee Vice President

12/2023 – 07/2024