Darshani Pathiranage

Information Technology Undergraduate

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I am seeking an opportunity to apply my Information Technology skills in a professional setting. As a final-year undergraduate, I have gained hands-on experience through academic projects involving full-stack development, object-oriented programming, cloud technologies, and IT infrastructure. I am a quick learner, an effective team player, and committed to contributing to successful project outcomes through adaptable and solution-focused work.

Programming Languages

- JAVA
- JavaScript
- Python
- HTML
- CSS
- Kotlin

Database Technologies

- MySQL
- MongoDB
- Oracle
- SQLite
- Firebase
- AWS

Tools & Frameworks

- React
- React Native
- Node js
- Tailwind Css
- Express Js
- Postman
- EXPO
- Visual Studio Code
- GitHub

Skills

- Microsoft 365
- Software Documentation
- Software Testing
- Collaborative
- Attention to Details
- Software Development
- Critical Thinking
- Problem Solving
- Excellent Communication

Coursework

- OOP Concepts
- Application Frameworks
- Data Structures and Algorithms
- Design Patterns
- Software Architecture
- Probability and Statistics
- Distributed Systems
- Database Systems

Certifications

AI/ML Engineer Stage 1: Offered by Sri Lanka Institute of Information Technology

AI/ML Engineer Stage 2: Offered by Sri Lanka Institute of Information Technology

MD-102T00-A: Microsoft 365 Endpoint Administrator

MS-900T01-A: Microsoft 365 Fundamentals

Web development 1 Web Design for Beginners: University of Moratuwa

Programing in python Stage 1 python for Beginners: University of Moratuwa

Education

- **BSc. (Hons) in Information Technology (SP. Information Technology)**
  Sri Lanka Institute of Information Technology Malabe
  [Jun 2021 - Present]

- **G.C.E.Advanced Level (2019)**
  Lumbini Collage, Colombo 06
  Commerce Stream
  B - Econ   C - Accounting   C - Information Technology

Research

- **Smart Learning Platform for Early Childhood Education**
  4th Year Research Project

  A Multimodal Mobile Approach to Foundational Learning is currently under the publication process. The study presents an innovative React Native mobile application designed to enhance foundational learning for children aged 3–8 through AI-generated illustrations, dynamic story segmentation, contextual audio, and interactive image-based activities.
  React Native | Node.js | Flask | Mongo DB | AWS S3 Bucket | EXPO

- **Guardian: Personal Safety Profile**
  3rd Year 2st Semester research Group Project

  A Mobile-Based Travel Safety Companion" explores how real-time tracking, secure user authentication, and contextual safety alerts can enhance personal travel safety.
  React Native | Node.js | Mongo DB | EXPO

Project History

- **Zolo : Social Media Platform for Fitness Enthusiasts**
  3rd Year 2nd Semester Group Project

  A social media web app for fitness enthusiasts to share workouts, meals, and progress. Features include real-time updates, customizable templates, interactive posts, and social login.
  Spring Boot | Java | MySQL | React.js | CSS

- **Plant Village: Deep learning algorithm**
  4rd Year 1st Semester Group Project

  Developed a CNN-based image classification model to detect and classify tomato leaf diseases using the Tomato Disease Dataset from Kaggle. Compared performance across custom CNN and pre-trained models like VGG16 to identify the most effective architecture for accurate and scalable plant disease diagnosis.
  Python | Colab notebook | VGG16 architecture

- **Mental Health Treatment Prediction System : Machine learning algorithm**
  4nd Year 2nd Semester Group Project

  Developed a machine learning-based classification system using survey data to predict the likelihood of individuals requiring mental health treatment. Aimed at enabling early intervention and support in workplaces, academic settings, and underserved communities through data-driven insights.
  Python | Colab notebook | Logistic Regression

- **Jacklup Solutions: Online IT Services and Event Management Platform**
  2nd Year 2st Semester UEE Group Project

  This project is about online IT services and event management marketing platform that offers multiple services and products from a single source. Using this platform, customers can easily find and manage all of their IT and event-related needs.
  React.js | Node.js | Express.js | MongoDB

- **Article-Publishing-System**
  2nd Year 1st Semester Group Project

  Designed and developed a web-based platform for users to write, submit, and publish articles. The system supports user registration, article review workflows, and content management, enabling efficient and organized digital publishing.
  MongoDB | Express.js | React.js | Nodejs