

THARUSHI AMARASINGHE



Undergraduate in BSc (Hons) Software Engineering

PERSONAL DETAILS

No 225/2, Dematagahapelessa, Aswedduma, 60000 Kurunegala
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Date of birth: August 2, 2003
Civil status: Single

ABOUT ME

As a Software Engineering undergraduate, my academic journey has been a delightful exploration of diverse technological realms. I have cultivated expertise in crafting engaging **Android applications** using **Java**, seamlessly integrating with both **Firestore and SQLite databases**. Delving into the artistry of **web development**, I've harnessed the trio of **HTML, CSS, and JavaScript** to bring dynamic and visually appealing interfaces to life. The elegance of **C# in Windows Forms application development** has added another layer to my skill set. What truly excites me, however, are the realms of Android and web development, where I find joy in bringing ideas to life through code. With a heart set on continuous learning, I eagerly anticipate contributing my passion and skills to the dynamic world of software engineering.

EDUCATION

GCE Ordinary Level Maliyadeva Girls' College, kurunegala 8 A's 1 B	2009 – 2019
Diploma in Software Engineering National Institute of Business Management(NIBM), Kurunegala BSc (Hons) Software Engineering – 1st Year GPA: 3.71/4.00	2021 – 2022
Higher National Diploma in Software Engineering National Institute of Business Management(NIBM), Kurunegala BSc (Hons) Software Engineering – 2nd Year GPA: 3.936/4.00 (without Final project marks)	2023 – 2024

WORKING EXPERIENCES

IT instructor National Institute of Business Management (NIBM), Kurunegala	Mar 2024 – Present
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PROJECTS

CRUD Application (Java , Firebase, Android studio)

- Developed Android app for seamless information management using Java, Firebase, and Android Studio.
- Implemented modern UI design with RecyclerView to enhance user experience.
- Successfully integrated Firebase for efficient data handling.
- Demonstrated strong Java programming skills through effective CRUD (Create, Read, Update, Delete) functionalities.
- Designed the app as a practical demonstration of expertise in Java, Android Studio, and Firebase.

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CRUD Application (Java, SQLite, Android Studio)

- Designed and developed a dynamic Android application for streamlined student information management using java, Android Studio, and integrated SQLite.
- Implemented a modern and responsive user interface using RecyclerView.
- Integrated SQLite to enhance the application's database functionality.
- Incorporated CRUD (Create, Read, Update, Delete) functionalities for seamless handling of student data.
- This project serves as a practical demonstration of skills in Android app development and Firebase integration.

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Vegetable Detection Application with Tensor Flow learning (Python/ Google Colab)

- Conducted a comprehensive exploration of vegetable classification using transfer learning with the InceptionV3 architecture.
- Developed in the Google Colab environment for ease of accessibility and collaborative use.
- Utilized TensorFlow and Keras for efficient deep learning implementation.

Training Notebook-

- Created a detailed training notebook covering dataset loading, preprocessing, exploratory data analysis (EDA), model construction, and evaluation.
- Incorporated image enhancement techniques, data visualization, and fine-tuning of the InceptionV3 model.

Inference Notebook-

- Developed an inference notebook that loads a pre-trained InceptionV3 model and applies image preprocessing, including color and contrast enhancement.
- Showcased the model's adaptability to different input conditions.

Dataset and Model Details-

- Used a diverse training dataset comprising 15 distinct vegetable classes, ensuring representation and diversity.

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Daycare management windows forms application (Mysql database)

- Developed a comprehensive Daycare Management System using Visual Studio and C#.
- Utilized Windows Forms for the user interface design.
- Leveraged Visual Studio as the primary development environment.
- Implemented logic and features using the C# programming language.
- Seamlessly integrated with a MySQL database for robust data storage and retrieval.
- Designed to efficiently manage and maintain essential data related to parents, babies, and babysitters.

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Data mining project

- Embarked on a data-driven journey in healthcare with a focus on diabetes risk prediction.
- Employed advanced data preprocessing techniques to enhance the quality of input data.

- Leveraged the J48 algorithm for constructing a predictive model.
- Encourages exploration and contribution from the community to foster collaborative data-driven advancements.

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TECHNICAL SKILLS

Programming Languages:

- C# (GUI)
- Java (OOP)
- HTML
- CSS
- JavaScript
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Database Systems:

- MySQL
- Firebase
- SQLite

Analytics:

- Power BI

other:

Android Application Development - Android Studio + Firebase

SOFT SKILLS

Communication



Teamwork



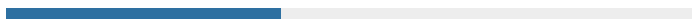
Adaptability



Problem Solving



Time Management



Interpersonal Skills



HOBBIES

■ DIY Projects

■ Volunteer Work

■ Reading

■ Human Observation

LANGUAGES

Sinhala



English



SOCIAL

Git Hub

<https://github.com/tharu456>

LinkedIn

<https://www.linkedin.com/in/shehani-amarasinghe-97737b28a/>

REFERENCES

Mrs. Sumudu Chathurika Course Director

National Institute of Business Management, Kurunegala

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