

DELINI SELLAR



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[Delini Sellar](#)



[DeliniS](#)

As a computer engineering undergraduate, I am passionate about Front-End development, Software Engineering and Software Development. I possess a strong theoretical foundation and practical skills in these areas, gained through coursework and hands-on projects. I would like to apply my knowledge to real world challenges, contribute to innovative solutions and enhance my skills in a dynamic working environment.

Education

March 2021 – Present

BSc in Computer Engineering, University of Peradeniya

GPA: 3.65/4.00 ([Transcript](#))

Relevant Coursework: Machine Learning, Data Structures and Algorithms, Programming Methodology, Linear Algebra, Statistics and Probability, Database Systems, Image Processing, Computer Architecture, Embedded Systems, Computer Networks, Network Security.

Aug 2017 – Dec 2018

- Graphics and Web development
- WinSys Campus

Aug 2017 – Aug 2019

G.C.E A/L: Physical Science Stream

Results: 2A B Z-Score: 1.69

St. Cecilia's Girls' College, Batticaloa.

Language

English - Professional proficiency

Tamil – Native proficiency

Sinhala – Professional proficiency

Projects

Automated Grass Cutter (LawnMate) – Group

- React Native, Spring Boot, MongoDB, AWS EC2
- This is an IoT device that is used to cut the grass in lawn mates.
- Developed a mobile application that could control the movement of the grasscutter.
- **Contribution to the project:** Developed Back-End using Spring Boot for seamless system integration.

[Project Repository](#)

[Project Page](#)

School Attendance Management System – Group

- React, Spring Boot, MySQL
- The school attendance management system is a web-based application that helps schools manage student attendance records.
- The system allows administrators to create classes and assign teachers, manage student details, and mark attendance.
- Parents and guardians can also use the system to view their child's attendance records and add notes for absences.
- **Contribution to the project:** Developed Front-End using React, delivering a user-friendly interface.

[Project Repository](#)

Plants Disease Detection – Group

- Flutter, Spring Boot, Flask, Inception v3
- Developed a mobile application that would predict the disease and the precautions, when an image of the plant that is affected with the disease is uploaded to the application.
- Images were preprocessed using Adobe Photoshop and the image recognition model Inception v3 was used in building the model.
- **Contribution to the project:** Developed Front-End using Flutter, constructing intuitive interface.

[Project Repository](#)

Mini Project

Library management System – Group

- HTML, CSS, PHP
- A web application was developed for managing the library system for the purpose of ease of maintenance.

[Project Repository](#)

Research Work

Cluster Analysis for Metagenomics Binning Research - Individual

- Improved the previous work regarding the binning method.
 - The previous work enhanced the 2T binning method and it used Mahalanobis distance metric.
 - Much more distance metrics were tried in order to get a better accuracy in binning the contigs.
 - **Participated in the [Poster Exhibition](#)** conducted by Multidisciplinary AI Research Centre (MARC).
 - **Future work:** Planned publication of research findings.
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Additional Experience and Participations

Casual Instructor at Department of Computer Engineering Department

CO223 – Computer Networks and Communication

- Supported educators in leading computer engineering practical sessions.

CO253 - Introduction to programming and Networking

- Assisted educators in implementing interactive learning strategies within computer labs.

Article Writer for Gauge Newsletter – Wrote about the Internship Fair of E18's. (Yet to be published)

AIESEC member (2021 - 2022) – iGT Sales - Sharpened skills in communication and leadership.

Participated in ACES Coders v.10 – Harnessed faster coding techniques.

Participated in HackX conducted by University of Kelaniya – Cultivated innovative ideas.

Participated in Coding competition conducted by University of Kelaniya – Tackled challenging problems head-on.

Certifications

[Programming for Everybody \(Python\)](#) , [Introduction to C](#) , [Introduction to Java](#) , [Introduction to Neural Network](#),
[Supervised Machine Learning: Regression and Classification](#) , [Generative AI for beginners](#) , [Introduction to ReactJS](#),
TensorFlow Python (**Ongoing**), Natural Language Process – Omdena Academy(**Ongoing**)

Technical Skills

Language: Python, C, Java, ARM, Dart,
Javascript

Database: MongoDB, MySQL

Frameworks and Libraries: ReactJS, Spring
Boot, OpenCV, NumPy, Pandas, Flask

Mobile Development: Flutter
Web Development: HTML, CSS, PHP,
React

REFERENCES

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