

SAHAYANATHAN GEORGE DILEN



About Me

Third year Computer Engineering Undergraduate who finds himself in a real world ruled by progress and productivity. Passionate and innovative Full-Stack Developer with a creative mindset and a strong inclination towards problem-solving. Equipped with a comprehensive skill set spanning both front-end and back-end development. With a proactive and energetic approach, I am dedicated to delivering high-quality products that exceed expectations.



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<https://github.com/dilen1999>



Wakwella, Galle, Sri Lanka.

EDUCATION

School

Sithi Vinayagar Hindu College Mannar

Jan 2012 - 2018 Aug

- Ordinary Level - 6A 2B C
- Advanced Level - 2A B

Higher Education

UNIVERSITY OF RUHUNA

2021 - 2025

- Bachelor of the Science of Engineering Honours (Computer Engineering)

2021 - 2023

- Followed Soft skill development

SKILLS

Programming Languages

Java, c, c++, Python, c#

Frontend Development

React JS, React Native, Javascript, HTML, CSS

Backend Development

Spring Framework, Firebase

Mobile App Development

React Native, Flutter

Data management

MYSQL, MongoDB

Machine Learning

Scikit-learn, pandas, numpy. (predictions with the aid of some algorithms)

IDE

Visual Studio Code, MS Visual Studio, IntelliJ, Android Studio

Version Control

Git

UI design, prototype UX research

Design patterns, Data structures and algorithms, UML

MATLAB, Proteus, Auto cad

Non-Technical Ability

Teamwork, Problem Solving, Critical thinking

Communication, Soft Skills

EXTERNAL COURSE

NNSE - Network security Fundamentals

NNSE 1 - Network Security Expert

NNSE 2 - Reading

INTERESTED IN

Networking

Web development

Cyber security

Coding

Solving problems

Sports

Designing

PROJECTS

1.Mobile Application

Job portal app.

i have done ui design, full stuck development, User management and simple crud operations.

Technology: Flutter, Firebase

2.Web application- Online medicine purchase

Role based authentication, CRUD.

Online medicine purchase

Technology: React, Spring boot, MYSQL

3.Web application and Mobile Application- Cycle sharing System

Real-time tracking enables users to unlock bikes swiftly using QR code scanning, facilitating seamless rental procedures.

Technology: React, React Native, Spring boot, MYSQL, MongoDB (Microservice Architectures)

4.WPF (.net application)

(MVVM Architecture)

CRUD, unit testing, SQLite,

XAML UI design

- POS system which consist of distinct privileges. (admin and user).
- User can select the product and quantity.(product can be deleted or added)
- User can preview the amount to be paid and balance.
- Admin can manage stocks.(add or reduce by selling)

5. WPF (.net application)

(MVVM Architecture)

Student Management System

CRUD operation

- Student can register and make a profile by uploading their image.
- Student can edit profile.
- Student can add GPA (student entity to store student information).

6.DataStructure

Canteen Management System.

(Using Queue, Double LinkedList)

7.Database

Digital Wallet

1. Requirement Analysis

2. Conceptual Design

- ER diagram, class diagram using visual paradigm

3. Implementation (2NF)

- Created database in MySQL.
- Normalization up to 2nd normalization.

4. Transactions (Queries)

- Data retrieval, Data modification, Data gap handling

5. Database Tuning

8.Machine Learning

Movie rating prediction

Using KNN and Decision tree algorithm

- Knowledge gained on data pre-processing and using algorithms.
- Achieved an accuracy score of 0.67 after model tuning, using a dataset from kaggle.

ACHIEVEMENTS AND AWARDS

- HaXtreme 2.0 coding competition
1st runners up (2024)
- MORA UXplore 1.0, all-island UI/UX design competition
14th place. (2023)
- Maths quiz competition district level
2nd place (2010, 2012) .
- District football meet
1st runners up (2017).
- All island inter university football competition.
Enter to quarter finals(2023)
- Participating SLUG (2023).
- Inter faculty football champions.(2023)
- Intra faculty football champions.
(2023, 2024)
- Intra faculty hockey
Champions(2024)
1st runners up(2023)
- Intra faculty volleyball
champions(2024)

CURRENT PROJECTS

Networking Project - File Transfer System

File sharing with multiple devices.

Using TCP socket.

NON RELATED REFERENCES

Dr. Rajitha Udawalpola

PhD (Uppsala, Sweden), BScEng (Hons) (Peradeniya)

Head, Senior Lecturer

Electrical and Information Engineering

Faculty of Engineering

University of Ruhuna.

Dr. Kushan Sudheera

PhD (NTU, Singapore), BSc. Eng. (Hons)(Ruhuna),

MIEEE, AMIE (SL).

Senior Lecturer.

Electrical and Information Engineering

Faculty of Engineering

University of Ruhuna.