Rehan Godakumbura

SOFTWARE ENGINEER(UNDERGRADUATE)

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EDUCATION

University Of Westminster
United Kingdom
Informatic Institute Of Technology (IIT)

G/Dharmasoka College
Ambalangoda - Sri Lanka
(GCE O/L & A/L)
2009 - 2023

EXPERTIS

- Programing Languages
  Python, Java, Go
- Frontend Development
  html , CSS , JavaScript , React
- Backend Development
  Spingboot , Node js ,Express js
- UI/UX
  Figma
- Database Management
  Mongo DB ,MySQL
- Mobile Application Development
  Kotlin

PROFILE SUMMARY

Passionate Software Engineering student with expertise in full-stack development, data analysis, and system architecture. Skilled in React, Python, Java, Springboot, Node and MongoDB for data visualization. Strong problem-solving and teamwork abilities.

PROJECTS / COURSES

Individual Projects

Tax Calculator System 2023
(Java)

This is an Individual Project that Designed the Java-Based Tax Calculator System to enable easy computation of taxes such as income tax, withholding tax, and lease tax. It has a powerful interface that is a simple Command Line Interface, performing an input check and giving accurate tax and appropriate leasing installment. The advantages cover the areas of efficiency and ease of use in the management of the organization's finances due to features that include efficient automation of tax calculations, precision, and an obvious prepossessing user interface.

Plane Seat Management System 2024
(Java)

This project is an application in java that manages and tracks plane seat reservations. These available functionalities including booking, canceling and showing the available seats. Arrays are applied in the system to manage seat data in a real-time basis to benefit from the seat services offered. It also uses user data through objects, thus improving ticketing by providing passenger data in ticket objects.

Event Ticket Management System 2024
(Java OOP, React, Springboot)

This project builds a real-time ticketing system with the help of multi-threading and incorporating the producer-consumer model. It provides approaches for coordinating the synchronised ticketing release and purchase with real-time updates and safe transactions. Designed with the modern technologies , it offers the contemporary, effective, easily scalable and user-friendly solution for the management of the event ticket .

Dice Game – Android App 2025
(Kotlin + Jetpack Compose)

Developed a fully interactive dice game application where a human competes against a computer opponent. Implemented custom game logic, optional rerolls, real-time score tracking, and win/tie-breaker handling using Kotlin and Jetpack Compose. Ensured smooth orientation changes without state loss. Focused on UI responsiveness and gameplay flow without third-party libraries.

Movie Knowledge App – Android App 2025
(Kotlin + Jetpack Compose)

Built an Android application that integrates the OMDb API and Room database to retrieve, store, and search movie data. Features include movie lookup, actor-based and substring search, and structured JSON parsing. Designed with Jetpack Compose for a modern UI and seamless user experience across device orientations.

EXTRA-CURRICULAR ACTIVITIES

AT University

- Member of Rotaract club IIT (SINCE 2023)
- Member of IEEE club IIT (SINCE 2023)
- Member of LEO club of IIT (SINCE 2023)

AT SCHOOL

- **Sports:**
  - Cricket (Under 15)
  - Swimming (Under 15)
  - Carom
- **Awards & Achievements:**
  - All Island Oriental Music Orchestra 3rd Place in Eastern Music (2015)
  - All Island Oriental Music Orchestra Award for Best Music Re-creation (2016)
- **Clubs / Societies / Units**
  - Member of Literary Society (2015 - 2023)
  - Member of Media Unit (2016 - 2023)
  - Member of School's Oriental Music Orchestra (2015 - 2019)

SOFT SKILLS

- Problem Solving
- Team Collaboration
- Adaptability
- Communication
- Creativity

Book Management API 2025

(Go, Fiber, GORM, SQLite)

Developed a RESTful API using Go, Fiber, GORM, and SQLite to manage book records with full CRUD functionality. Implemented modular architecture with proper error handling and HTTP status codes. Designed for maintainability, lightweight storage, and unit testing, ensuring scalability and clean separation of concerns.

MaxFlow-FordFulkerson-Java 2025

(Java)

This project implements the Ford-Fulkerson maximum flow algorithm using BFS (Edmonds-Karp) and DFS approaches. It employs an efficient adjacency list and capacity map to optimize performance and memory usage. The program includes benchmark tests, performance analysis, and supports handling large sparse networks in real-world maximum flow computation scenarios.

Group Projects

Website Design & Development - Life On Land 2024

(Html ,CSS,JavaScript)

This project entails the development of an interactive website for creation of awareness on environmental issues and a call to adhere to environmentally friendly practices. From it, people can learn about the status of biochemical diversities, the measures taken to protect them, and how to involve everyone to ensure full conservation of the lives on land. It seamlessly combines elements of design and content that include uses of interactivity, functionality, and Web 2.0 data with the goal of informing visitors about the conservation of the Earth's resources.

Learn Heart System 2024 - 2025

(React, Express js, Node js, Mongo DB)

An educational platform enhancing science education in rural Sri Lanka through teacher training, virtual labs, and project-based learning. It features seminar booking, learning material access, and user management. Built with modern technologies, it offers demand forecasting and personalized recommendations, promoting scalable, interactive, and accessible learning solutions.

REFEREES

1. Dr. B. A. Kasuni Welihinda
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