SATHIYASEELAN **PREMALAXSAN**

CONTACT

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- github.com/PremGIT1999

EDUCATION

BSc in Information Technology (In Progress, Since 2020)

Rajarata University of Sri Lanka

- Relevant coursework: Programming Fundamentals, Mobile Application Development, UI/UX Design, Database Systems

Diplomas & Certifications

UI/UX Design Workshop (2024)

UKI technology school by yarl IT Hub

- Attended an intensive 6 hours (2 days) workshop on user interface and user experience design principles
- Gained hands-on experience with Figma design aspects

Diploma in IT Skills Development (2019, 6 Months)

E-City College

- Covered computer fundamentals, basic programming concepts, and software applications

Diploma in Sinhala (2019, 6 Months)

Hindu Buddhist Cultural Association

Secondary Education

GCE Advanced Level

Commerce Stream (2018)

Result -ABC

Jaffna Hindu College

GCE Ordinary Level (2015)

Result - 4AB3CS

Jaffna Hindu College

PROFESSIONAL SUMMARY

I am a motivated Information Technology undergraduate with a strong foundation in programming and a growing focus on frontend and cross-platform development. My experience includes building Flutter-based mobile applications, designing user-friendly interfaces with Figma, and working with modern web technologies such as HTML, CSS, and JavaScript. I have a keen eye for UI/UX design and enjoy creating clean, intuitive, and responsive user experiences. Additionally, I bring a creative edge through my work in photography and graphic design, combining technical skill with visual storytelling. I am eager to contribute to innovative software projects and continuously expand my knowledge in modern frontend frameworks and development practices.

PROJECT EXPERIENCES

Real-time Yoga pose monitoring system - 3rd Year project
- Developed a Flutter-based mobile application for real-time yoga pose verification using machine learning, implementing a feedback system that highlights incorrect body positions to guide users. The application is integrated with a Flask server for angle extraction and pose analysis, ensuring accurate assessment. Additionally, I managed a MySQL database to track user progress and performance over time. To enhance functionality, I designed and integrated a pose classification and verification model, enabling precise pose recognition and correction.
- Github link: https://github.com/PremGIT1999/Yoga_Pose_Detection_system

Simulation of 4-way intersection traffic lights
- Developed an embedded C program for an ATmega 1281 microcontroller to manage a traffic light system with multiple phases. Implemented push button controls for system enable/disable functionality and integrated timer interrupts for automatic phase transitions, ensuring efficient traffic management.

Tree Species Classifier
- Conducted research to classify tree species using Python and Artificial Neural Networks. Successfully trained a neural network model to distinguish between three species of "Pride of india, Terminalia arjuna, Canon ball tree" based on collected datasets.

Mobile Applications
- Created a Library Management System and a Hotel review app using Android Studio, Java, SQ lite and Fire base Streamlined library operations by creating an efficient product and designed an intuitive task management app for daily planning.

Image Cartooning Software
- Developed software in Python to convert images into cartoon-style visuals using edge detection and bilateral filtering. Enhanced skills in image processing and real-time visualization with Python libraries (NumPy and Open CV).

Student Registration System
- Implemented a feature-rich student registration system in C++, leveraging object-oriented principles. Automated administrative processes and optimized data handling workflows.

Photographer Portfolio Website

- Designed and developed a responsive portfolio website for a professional photographer to showcase their work and services. Built using HTML, CSS, and JavaScript, with a strong focus on UI/UX, clean layout, and mobile responsiveness. Integrated interactive galleries, contact forms, and social media links for client engagement.

🔗 GitHub: https://premgit1999.github.io/Premalaxsan-s-Portfolio/

KEY SKILLS

- **Programming:** Flutter, Dart, HTML, CSS, JavaScript, Basic Java, Basic Python
- **Development Tools:** Flutter SDK, Android Studio, VS Code, Git, Postman
- **UI/UX:** Figma for UI/UX design, Knowledge of responsive layouts, Material Design principles, and Flutter widgets
- **Cross-Platform Development:** Experience in building cross-platform applications
- **Creative Software:** Adobe Photoshop CC, Adobe Premiere Pro, DaVinci Resolve (for design, video editing, and motion graphics)
- **Technical Abilities:** Problem-solving, logical thinking, attention to detail
- **Operating Systems:** Windows, Android, iOS (basics)
- **Languages:** Tamil, English, Basic Sinhala
- **Collaboration & Soft Skills:** Strong communication, teamwork, time management, adaptability

PROFESSIONAL STRENGTHS

- **Flutter Development**
- **Functionality Integration**
- **UI/UX Design**
- **Photography & Graphic Design**
- **Independent & Team Collaboration**
- **Continuous Learning**
- **Problem-Solving**
- **Technical Aptitude**
- **Database Management**
- **Attention to Detail**
- **Adaptability**

MEMBERSHIPS

Member - IEEE Student Branch of Rajarata University of Sri Lanka

EXPERIENCE

Volunteering - IEEE Student Branch of Rajarata University of Sri Lanka

- Member of the Organizing Committee (OC) for IEEE Xtreme 18.0 Competition.
- Photographer and Videographer for IEEE Xtreme 18.0 Competition.
- Member of the Video Editing Team for IEEE Student Branch, Rajarata University of Sri Lanka for the term of 2023/2024.

NON RELATED REFERENCE

Mr. N.M.A.P.B. Nilwakka
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