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RAVINDU CHAMARA BALASOORIYA

IT Graduate

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PROFILE

As a motivated graduate, I am dedicated to designing and developing robust and scalable software solutions to meet the needs of users. I possess a strong work ethic and meticulous attention to detail, thriving in fast-paced and ever-evolving environments. I am eager to join a team where I can leverage my skills and expertise to contribute to business growth, surpass customer expectations, and deliver exceptional software solutions.

WORK EXPERIENCE

Smallholder Agribusiness and Resilience Project(SARP) Ministry Of Agriculture, Sri Lanka
Management Information System (MIS)
6 months as an Intern Full-Stack Web Developer and 6 months as a Junior Full-Stack Web Developer
Duration - 1 year and 2 months (28th June 2024 to August 31st 2025)

Tools & Technologies: Laravel, MySQL, Blade, JavaScript, HTML/CSS, GitHub, Hostinger (cPanel), SSH, Git

Key Responsibilities:
- Designed and developed a modular MIS web application using Laravel, managing multiple interconnected modules (e.g., Beneficiary Management, Infrastructure, Training, EOI, Livestock, Tank Rehabilitation, etc.).
- Implemented CRUD functionalities, dynamic dashboards, CSV/PDF export/import, and file uploads across all modules.
- Created role-based access control and permission management with custom middleware for module-specific user restrictions.
- Integrated search, filter, and pagination features for efficient data retrieval in large datasets.
- Used relational database modeling (one-to-many, many-to-many) to manage complex data relationships.
- Conducted unit testing and debugging to ensure the reliability, security, and performance of each module.

Hosting & Deployment:
- Hosted the application on Hostinger using a subdomain (e.g., mis.sarp.lk), with configuration of DNS settings, cPanel, and SSL certificate.
- Set up GitHub integration via SSH for seamless deployment and version control of the MIS system.
- Performed manual and automated deployments, including Laravel migrations, storage linking, and environment file configuration.

EDUCATION

Graduate at Sri Lanka Institute Of Information Technology

BSc (Hons) in Information Technology Specializing in Information Technology
GPA 3.03

GCE Advance Level (Physical) – 2020

- Combined Mathematics - C
- Chemistry - C
- Physics - C
- English - C

GCE Ordinary Level – 2016

- A – 6 | B - 3
- Mathematics - A | Science - A | English - B
- Information & Communication Technology - A

CERTIFICATIONS

- Diploma in Information Technology. (Esoft Metro Campus)
- Diploma in English. (Esoft Metro Campus)
- Follow online certification in Alison for ITIL foundation.

SKILLS

- Programming Languages: C, C++, Java, Python, PHP, JavaScript, HTML, CSS
- Frameworks/Libraries: React JS, Node JS, Express JS, Bootstrap, Tailwind CSS, Spring Boot
- Databases: MySQL, MongoDB, Oracle, Firebase
- Software Architectures: MVC
- Automation & Testing: Selenium WebDriver, Selenium IDE
- APIs: REST API
- Tools & Platforms: Git, Git Bash, GitHub Desktop, Postman, Figma, UML, draw.io, VS Code, IntelliJ IDEA, Eclipse, Android Studio, MySQL Workbench, XAMPP, Power BI
- Concepts: OOP, Data Structures and Algorithms
- Cloud Platforms: AWS, Azure
- Other Skills: Machine Learning

PROJECTS

- Research Project - Mobile-Based Coconut Mite Detection System (CocoGuard) : Conducted final-year research on detecting coconut mite infestations using deep learning and image super-resolution techniques. Developed a lightweight, real-time mobile application that identifies mite attacks on coconut surfaces using images captured in the field. The React Native frontend (tested via Expo Go) communicates with a Flask-based backend API for inference and image enhancement. Multiple CNN architectures were trained and evaluated (MobileNetV2, ResNet50, Custom CNN, Vision Transformer), with MobileNetV2 selected for final deployment due to its accuracy and mobile efficiency

  Technologies: React Native with Expo Go (Frontend), Flask (Backend API), MobileNetV2, ResNet50, Custom CNN, Vision Transformer, Real-ESRGAN, TensorFlow, Python

  Note: Research paper published at IcoDSA Conference.

- Social Media platform : The social media platform is a collaborative project aimed at employees, employers, businesses and consultants to search for job opportunities, post jobs, post available courses and post consultant services.

  Technologies: Front-end: React JS, Tailwind, Ant Design/ Back-end: Node JS/ Database: MongoDB

- Gym Social media Platform : The social media platform is a collaborative project aimed to share post, videos, workout status, meal plans of users.

  Technologies: Front-end: React JS, Bootstrap/ Back-end: Spring Boot/ Database: MySQL

- Hospital Management System : The Hospital Management System is a collaborative project aimed at improving the efficiency of healthcare institutions.

  Technologies: Front-end: React JS, Bootstrap/ Back-end: Node JS/ Database: MongoDB

- Freelancing App : The Freelancing App is a collaborative project aimed at connecting freelancers with clients, facilitating project collaboration, and managing various aspects of freelancing work.

  Technologies: Kotlin / Backend Services: Firebase (Authentication, Realtime Database, etc.)

- Event Photography Management System : The Event Photography Management System is a collaborative project designed to streamline event photography services. It includes features such as client management, event scheduling, photo gallery management, and invoicing.

  Technologies: Front-end: HTML, CSS, JavaScript/ Back-end: PHP/ Database: SQL

- Automated Web Application Testing using Selenium : Conducted in-depth quality assurance on a pre-built web application using both manual testing and automated testing. Created detailed test cases and executed them using Selenium WebDriver (with custom scripts) and the Selenium IDE browser extension. Ensured test coverage of key UI interactions, recorded test outcomes, and reported defects with clear severity and priority levels.

  Technologies: Selenium WebDriver, Selenium IDE, Manual Testing, Test Case Design, Automated UI Testing, Defect Reporting

- Cloud-Based Student Records Hosting System : Developed a scalable and highly available web application infrastructure on AWS to support a student records system. The solution ensured load balancing, autoscaling, and secure access, following AWS Well-Architected Framework best practices.

  Technologies: AWS EC2, S3, RDS [MySQL], Load Balancer, Auto Scaling Group, VPC, Security Groups, Route 53

- Developed test cases for Event Photography Management system, ensuring functionality, reliability, and user experience across various scenarios and conditions.

- Redesigned old web page UI in Figma, enhancing user experience with modern, intuitive design and improved functionality.

- Concurrent Chat Server and Client Program : Developed a concurrent chat server and client program using C, enabling user registration, one-on-one chatting, and a waiting room for idle clients. Configured DNS records for seamless server resolution.

  Technologies: C, Socket Programming, DNS Configuration, CentOS, VMware

CLUBS & SOCITIES

- IEEE Computer Society of SLIIT

PERSONAL DATA

- **School:** St.Aloysius college
- **Date of Birth:** 21st April 2000
- **NIC:** 200011200129

REFERENCES

Mr. Mahiman Weerasuriya.
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I do hereby certify that the above-mentioned particulars are true and accurate to the best of my knowledge.

R C Balasooriya