MALITH RATHNAYAKE

Software Engineer Intern

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PROFILE

- Motivated Computer Science and Technology undergraduate with expertise in computation, analysis, and software development. Skilled in collaborating within teams, meeting tight deadlines, and solving complex problems. Committed to continuous learning and applying technical knowledge to develop innovative solutions and achieve impactful results.

RESEARCH AND PROJECTS

AI-Driven Learning Assistance Tool for Endemic Fish Species Identification

Research

📅 November 2024 – Ongoing   📍 Uva Wellassa University

- Leveraging Convolutional Neural Networks, Taxonomic Features, Ontology and Explainable AI for Transparent Insights .
- Technologies -Python (OpenCV, Pillow) for preprocessing, TensorFlow/Keras for CNN training, Grad-CAM and SHAP for XAI, Protégé and SPARQL for ontology management, and Google Colab/Kaggle for GPU-accelerated training.

GearWise - CRM System for Automated Vehicle Service Center

Project

📅 July 2024   📍 Uva Wellassa University

- A platform that streamlines user registration, login, and service appointments with flexible rescheduling and queue management. It offers time-based alerts, service completion notifications, a customer portal, GPS tracking, and chatbot support. Features include off-peak pricing rewards, advertisement placements, customer feedback, and integrated supply chain management for efficient operations.
- Technologies - MERN Stack, HTML, CSS, JavaScript, React Bootstrap, MongoDB, Express, Node js

UvaRayon: Dynamic University Media Portal for Collaboration and Growth

Project

📅 June 2024   📍 Uva Wellassa University

- A smart event management platform to streamline planning, scheduling, and managing coordination. Provides event calender,sort events and the easy reachable. Ensures seamless user experience with intuitive interfaces and automated workflows.
- Technologies - Next.js, TypeScript, Tailwind CSS, Node.js, Express.js, MongoDB, NextAuth.js, Git, GitHub, Figma, Postman.

MOST PROUD OF

🏆 **Courage I had**
Tackling challenging software projects to create impactful, innovative solutions.

💓 **Persistence & Loyalty**
Balancing academics and development, staying committed through tough times.

📈 **Contributing to Growth**
Building real-world applications to modernize businesses and enhance engagement

📈 **Empowering Young Developers**
Inspiring peers by sharing knowledge and showcasing creative problem-solving.

TECHNICAL SKILLS

Python · PHP · Tailwind css · Figma · GitHub · Git · Cloud Computing · MySQL · MongoDB · Kotlin · Next.js · Django · Postman · node.js

LANGUAGES

English
Sinhala

INTERESTS

Software Development · AI and Machine Learning · Cloud Computing · Data Science and Warehousing · IoT Systems · Product Management & Marketing · UX · Mobile Devices & Applications

EDUCATION

Bsc. (Hon's) in Computer Science
Uva Wellassa University of Sri Lanka
📅 Sept 2021 – Present

G.C.E (A/L) | Physical Science
Ibbagamuwa Central College
📅 2019

RESEARCH AND PROJECTS

Developing a NumExtractor: AI-Powered Contact Number Extraction Tool for Images

Project

📅 June 2024   📍 Client-Project

- Developed NumExtractor, a Python-based macOS application that uses OCR to extract and format contact numbers from images, with features for CSV export and Excel conversion. Built with PyQt5 for a user-friendly interface, ensuring cross-platform compatibility for Intel-based MacBooks
- Technologies - Python, PyQt5, Tesseract OCR, pandas, PIL (Pillow), Regular Expressions (re), PyInstaller

VESTARIO - A Web Application for a Clothing Store

Project

📅 2023 / 2024   📍 Uva Wellassa University

- User Registration and Login, Product Management, Placing a Order Shopping Cart, Wish List, Payments, Order Tracking, Ratings and Reviews, Custom Design Orders
- Technologies - HTML, CSS, JavaScript, PHP, MySQL, XAMPP Server, Bootstrap

Elezione - A secure, user-friendly online voting platform for efficient account management and elections.

Project

📅 2022 / 2023   📍 Uva Wellassa University

- Elezione is a secure, user-friendly online voting platform for efficient account management and elections.
- Technologies - HTML, CSS, JavaScript, PHP, MySQL, XAMPP Server, Bootstrap

BidWiz - A dynamic bidding based platform enabling product selling, selling real-time price negotiation

Project

📅 2022 / 2023   📍 Uva Wellassa University

- User Registration and Login, Product Management, Placing a Order Shopping Cart, Wish List, Payments, Order Tracking, Ratings and Reviews, Custom Design Orders
- Technologies – HTML, CSS, JavaScript, React Bootstrap, MySQL, Phython Django

Web Develop for 'Travel with Krishan': A Tourism Booking Platform Promoting Sri Lanka

Project

📅 2022 / 2023   📍 Client-Project

- Developed a comprehensive travel website, 'Travel with Krishan,' designed to provide seamless booking of travel and tourism services while promoting Sri Lanka as a premier travel destination. The platform offers users an intuitive experience for exploring travel options, making bookings, and discovering the beauty and culture of Sri Lanka
- Technologies - HTML, CSS, JavaScript, PHP, MySQL, XAMPP Server,Bootstrap

OTHER SKILLS

Content Creating | Videography | Management Skills | Leadership Skills | Photography | Digital Marketing | UX | Mobile Devices & Applications

EXTRA-CURRICULAR ACTIVITIES

- Tresurer UvaRayon Media Club of Uva Wellassa University, Badulla
- Member of Computer Society of Uva Wellassa University
- Member of LEO Club of Uva Wellassa University

ACHIEVEMENTS

- Certificate in UI/UX Design with Figma: 5+ Real World Projects Successfully completed a hands-on course focusing on designing real-world projects using Figma.
- The Python Programming A-Z Definitive Diploma Earned a comprehensive diploma covering Python fundamentals and advanced programming concepts.
- Learn and Build Containers from Scratch Using Docker, Kubernetes, and DevOps Successfully completed a course on containerization technologies and DevOps workflows.
- Completed a full-stack development course focusing on Java and Node.js for backend development.

REFERENCE

Prof. E.M.U.W.J.B.Ekanayake - Senior Lecturer
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