DILUK UDAYAKANTHA

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LinkedIn | GitHub | Website

EXPERIENCE

Freelance Flutter Developer   **Nov 2024 – Present**

- Contracted by a startup serving international clients to develop Flutter-based mobile applications.
- Contributed to multiple AI-integrated systems, focusing on delivering seamless mobile experiences.
- Responsible for end-to-end mobile development, including UI implementation, API integration, and in-app backend functionality.
- Worked closely with AI/ML engineers to integrate machine learning models and AI features within mobile interfaces.
- Involved in crafting custom UI/UX designs to meet client-specific branding and user experience needs.

SILICON RADON NETWORKS – KANDY

Intern Flutter Developer   **Apr 2024 – Nov 2024**

- Responsible for developing custom tailored mobile applications.
- Developed MVP mobile applications for Restaurant, Salon and E channeling sectors.
- Developed and maintained RESTful APIs to support seamless communication between the frontend and backend systems.
- Utilized version control systems like Git to ensure code quality and collaboration efficiency.

YOMBOC SOFTWARE SOLUTIONS – COLOMBO

Software Engineering Intern   **Oct 2022 – Jan 2024**

- Assigned to monitor an LMS for bugs and function failures.
- Provide technological solutions to improve the productivity of the staff.

EDUCATION

CINEC Campus, Malabe   *Jun 2021 - Present*
Bachelor of Science (Hons) in Software Engineering; Cumulative GPA: 3.73 / 4.0

Dharmaraja College, Kandy   *Jan 2010 - 2019*
Passed G.C.E (A/L) Examination in Physical Science, in 2019
Passed G.C.E (O/L) Examination, in 2015

PROJECTS

AI Based Virtual Skin Care Assistant
Technologies: Flutter, Dart, Hive, Provider, Firebase, Cloudinary, Machine Learning

- Developed a virtual skincare assistant that analyzes users' skin conditions daily and provides personalized improvement suggestions.
- Integrated a trained ML model via API call to assess skin health based on daily selfie uploads, enabling real-time condition tracking.
- Provided AI-driven recommendations for skincare products, dietary choices, and skincare tips tailored to individual needs.
- Implemented a history feature, allowing users to review past skin condition assessments and track their progress over time.

Gymnai – AI Based Fitness Trainer
Technologies: Flutter, Dart, Provider, Google MLKit

- Developing Gymnai, an AI-driven fitness trainer mobile application using Flutter, designed to detect and correct users' exercise posture in real-time.
- Implemented voice guidance to guide users during exercises for better usability.
- Integrated Google MLkit for posture recognition and analysis, providing instant feedback and suggestions to improve exercise form.
- Designing a session report feature to summarize user performance after each exercise.
- Focusing on seamless device setup and camera integration for an intuitive and user-friendly experience.

Citilytics - Image Classification Mobile Application
Technologies: Flutter, Dart, Firebase, Tensorflow Lite

- Developed Citilytics, a real-time object detection and image classification mobile application using Flutter, designed to identify vehicles with advertisements.
- Integrated TensorFlow Lite for efficient object detection, enabling the app to capture and store images of identified vehicles locally.
- Implemented Google Drive integration, allowing users to upload captured images seamlessly after logging into their Google accounts.
- Provided advanced customization features, including adjustable confidence thresholds and support for user-provided TensorFlow Lite models, enhancing usability and adaptability.

CloseCart - Location Based Advertisements Platform (Ongoing)
Technologies: Flutter, Dart, ExpressJS, MongoDB, Machine Learning, Open Street Maps

- Developing CloseCart, a web based system using the MERN stack, designed for small business owners to publish and manage offers and discounts.
- Building a Flutter mobile application that utilizes geofencing and real-time location tracking to help users discover the best nearby deals.
- Integrating an AI powered recommendation system to personalize offers based on user preferences and behavior.
- Implementing an insights dashboard, enabling shop owners to track offer performance and customer engagement through real time analytics.

AizoTF – TFLite Model Checking App
Technologies: Flutter, Dart, TensorFlow Lite

- Developed AizoTF, a mobile application designed to test TensorFlow Lite machine learning models for image classification and object detection.
- Implemented a user-friendly interface to upload and validate TFLite model files and label files, ensuring seamless testing of model compatibility.
- Optimized for SSD MobileNet models, providing real-time inference and evaluation of model performance.
- Designed with extendability in mind, allowing future support for additional model architectures and configurations.

EXTRACURRICULAR

Director - CINEC Student Association (2023 – 2024)
President - Teck Strike IT Club of CINEC Campus (2023 – 2024)
Web Master - CINEC IEEE Student Branch (2023 - 2024)
Designer - IEEE SLSAC (2024 – 2025)

SOFT SKILLS

Problem Solving
Collaboration & Teamwork
Attention to Detail
Creativity

TECHNICAL SKILLS

Programming Languages: Dart, Python, Java, JavaScript
Frameworks & Libraries: Flutter, TensorFlow Lite, Provider, Bloc
Backend & Databases: Firebase, SQLite, Hive, MySql, MongoDB
Tools & Platforms: Git, GitHub, Cloudinary
Other Technologies: Google Drive API, OpenStreetMap, REST APIs, Payment gateways

INTERESTED AREAS

Flutter Mobile Application Development
AI Integrated Mobile Applications
AI Agent Development

REFERENCES

Ms. Ramya Dharshani I. Vithanage,
Instructor in English,
University of Peradeniya,
0768988841

Ms. Suranji Nadeeshani,
Head of Department,
CINEC Campus - Malabe,
077986687

I do hereby certify that the above particulars are true and accurate to the best of my knowledge.

..........2025/04/23........   ....
      Date   Signature