

Suhas Dissanayake

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About Me

Computer Science & Engineering undergraduate at University of Moratuwa, passionate about open-source, creative problem solving, and building impactful privacy focused software.

Education

University of Moratuwa, BSc Eng Hons, Computer Science & Engineering May 2024 – Present

Badulla Central College, Badulla Until 2022

- GCE A/L 2022: 3A Passes (Physical Science Stream)
 - Z-score: +2.3477
 - District Rank: 11
- GCE O/L 2019: 9A Passes

Experience

Assistant Manager (Satellite and IT), SEDS Mora April 2024 – Present

- Coordinating IT related work including the SEDS mora website and managing competitions related to satellite and aircraft building.

Certificates & Achievements

- **Silver Medal – Sri Lanka Physics Olympiad (2022)**
 - Awarded for achieving 98% marks in the nationwide physics competition.
- **Certificate – Professional Web Development using Joomla & WordPress, Open University of Sri Lanka**
 - Completed a program covering the development and design of various website types (blogging, news, e-commerce, etc.) using WordPress and Joomla.
 - Included instruction on page builder plugins (Elementor, Divi), Advanced Custom Fields, SEO, web traffic analysis, security, backup, migration, and fundamental networking concepts.
- **Certificate – Machine Learning, Stanford University (Coursera)**
 - Obtained after successfully completing a rigorous online course encompassing:
 - * Supervised Machine Learning: Regression and Classification
 - * Advanced Learning Algorithms
 - * Unsupervised Learning, Recommenders, Reinforcement Learning

Projects

Online Teacher Training Platform SuhasDissa/Educational-Course-Website

- Developed a full-stack educational platform for the Uva Provincial Department of Education.
- Built with SvelteKit, PrismaDB, Tailwind, DaisyUI, and LuciaAuth.
- Facilitates training on multilevel teaching methods for over 5596 teachers from Uva and Central Province primary schools.
- Includes progress tracking, automated certificate generation, and a comprehensive admin panel.

Food-E Food ingredient App SuhasDissa/Food-E-App

- Provides a database of over 560 artificial food additives and E-numbers with detailed information.

- Features a barcode scanner for instant nutritional information about food products.
- Built using Kotlin, Jetpack Compose, and Room DB.
- Achieved over 1000 downloads on GitHub.

NotQuiteNitro Browser extension

SuhasDissa/NotQuiteNitro

- Enables the use of emojis and stickers in Discord without a Nitro subscription.
- Has 205+ active users on the Firefox Add-on store.

3D Animation for Sakura Musical Event

YouTube: Sakura 3D
Animated Movie

- Solely responsible for the 3D modeling and animation using Blender and Kdenlive for the Sakura Musical by the CSE Department, University of Moratuwa.
- The animated movie was a featured visual element during the live musical performance.

Open Source Contributions

RecordYou

you-apps/RecordYou

- Introduced a real-time waveform visualiser for enhanced audio feedback during recording.
- Implemented an intuitive screen annotation tool to enrich screen recordings with on-screen drawings.
- Enabled precise audio and video trimming, allowing users to refine their recordings.
- Revamped navigation with Jetpack Compose Navigation, providing a smoother and more consistent user experience.

ClockYou

you-apps/ClockYou

- Significantly enhanced the app's UI/UX for improved usability and visual appeal.
- Added full-screen alarm notifications to ensure important alarms are never missed.
- Bolstered timer and stopwatch accuracy by leveraging Android Services for background operation.
- Improved the world clock with country-based search, making it easier to find specific time zones.
- Introduced theme and appearance customization, allowing users to personalize the app.

VibeYou

you-apps/VibeYou

- Introduced Artist and Album discovery pages, expanding music exploration within the app.
- Optimized the UI for responsiveness across various screen sizes and layouts, ensuring a consistent experience.
- Enhanced local music playback with automatic parsing of album art, artist, and album names.
- Implemented local playlist support for seamless creation and management of personalized music collections.
- Integrated the NewPipe parser for efficient and reliable retrieval of YouTube data.

CalcYou

you-apps/CalcYou

- Developed a custom expression parser enabling robust evaluation of mathematical expressions.
- Improved the UI to ensure seamless adaptation to both portrait and landscape orientations.
- Added a powerful graphing calculator functionality for visualizing mathematical functions.
- Integrated a comprehensive unit converter for convenient conversion between various units.

Technologies

Programming Languages: Kotlin, Java, C++, C, JavaScript, SQL

Frontend: React, Svelte, Tailwind CSS, DaisyUI

Back-end/Database: PostgreSQL, PrismaDB, Room DB, SvelteKit, Vite

Dev Ops / OS: Linux (Ubuntu & Arch), Bash, Git, Docker, Kubernetes

Other Tool: Blender, DavinciResolve, Adobe After Effects, Adobe Photoshop, Figma