

Vihangi Sandakirani

Colombo, Sri Lanka

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SUMMARY

A passionate and driven fourth-year Computer Science undergraduate with hands-on experience in web and mobile development and 3D modeling. Proficient in Java and various web technologies, with a strong focus on application development and project management. Actively involved in design and leadership roles within university clubs under ECSC, where I have successfully organized and participated in events, webinars, and competitions. Currently engaged in full-stack development, application development, and 3D modeling, and have also begun research work.

EDUCATION

University of Kelaniya

BSc (Hons) in Electronics and Computer Science

Kelaniya, Gampaha
(Reading)

- GPA: 3.53 (Current)

Gothami Balika Vidyalaya

Colombo 10, Colombo
2011 - 2020

- **G.C.E. Advanced Level Examination (Physical Science Stream)** [2020]
Grades: A in Mathematics, B in Chemistry, C in Physics
Z-Score: 1.5459
 - **G.C.E. Ordinary Level Examination** [2017]
Grades: 7A, 2B
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Community & Leadership

Electronics and Computer Science Club/University of Kelaniya

Kelaniya, Gampaha
August 2023 - August 2024

- Collaborated with ECSC in UOK Robot Battles 2k24
 - Organized Friendly cricket match.
 - Organized a Seminar Series
 - Organized Fundraising Campaigns
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CERTIFICATIONS

- Introduction to C# *Issued by Sololearn - July 2024*
 - Introduction to C *Issued by Sololearn - July 2024*
 - Introduction to HTML *Issued by Sololearn - July 2024*
 - Introduction to CSS *Issued by Sololearn - July 2024*
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PROJECTS

Object Counter Circuit | *Digital Electronics Project*

Individual Project - 1st Semester

- Developed a digital object counting circuit using electronic components to accurately detect and count passing objects.

Film seat booking System | *Java, IntelliJ IDEA*

Team Lead - 2nd Semester

- Utilized Object-Oriented Programming (OOP) concepts in Java to design and implement an efficient film seat booking system.

Smart Panel Light Transformer | *IoT Project*

Team Member - 4th Semester

- Designed and implemented an IoT-based smart panel light transformer system to enable remote control and automation of lighting.

Mobile Shop Management System | *C, Visual Studio, MySQL*

Team Lead - 5th Semester

- Developed a comprehensive mobile shop management system with secure login, inventory management, and customer record handling, enabling efficient phone stock tracking and operations.

Sports item website system | *HTML, CSS, JS, PHP, MySQL, VSC*

Team Lead - 5th Semester

- Developed a web-based travel booking system that allows users to search, book, and manage travel packages.

Mobile App for Coffee Shop (Cafe Bloom) | *Kotlin, Android Studio, SQLite*

Team Lead - 6th Semester

- Developed a fully functional mobile app for an online coffee shop, allowing customers to browse, customize, and order coffee seamlessly.

Audio Recognition | *TensorFlow, Keras, Matplotlib, NumPy, Python, Google Colab*

Team Member - 6th Semester

- Developed a speech recognition system using deep learning and TensorFlow, implementing a model to classify audio data from a mini-speech commands dataset.

Online Mobile Phone Selling System | *React, TypeScript, MongoDB, Spring Boot* (Cellular World)

Team Lead - 6th Semester

- Developed a comprehensive online mobile phone selling website incorporating both customer and admin sections to facilitate user-friendly browsing, purchasing, and efficient inventory management.

Real-Time On-Pitch Singing Detection Assistant for Sinhala Songs | *Python, Librosa, Flask, MongoDB*

*Research Lead – Final Year Project
(Group Project – 3 Members)*

- Developed a web-based system to detect and evaluate real-time singing pitch accuracy by comparing user vocals with reference notes.
- Integrated key and tempo detection for Sinhala songs and implemented real-time pitch shifting for effective alignment.
- Trained and applied a machine learning model to classify singer gender from vocal samples to enhance performance.

- Contributing to the development of [specific website and application], ensuring scalability and efficiency.
 - Assisting in backend development, and troubleshooting key technical challenges.
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Technical Skills

Languages: Java, Html, Css, JavaScript, PHP

Databases: MongoDB

Frameworks & Libraries: Spring Boot, React.js, React Native, TensorFlow, Matplotlib

Developer Tools: Android Studio, Visual Studio, Visual Studio Code, GitHub

Additional Tools: Figma, Canva, Blender

Applications: Web Development, Mobile Development, UI/UX Design, MATLAB

REFERENCE

Professor A L A K Ranaweera

Senior Lecturer, Programme Coordinator (ECS)

Department of Physics and Electronics

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Dr. B.M.T. Kumarika

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