GAGANA SAMARASEKARA

COMPUTER SCIENCE UNDERGRADUATE

CONTACT

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🌐 Gagana

in Gagana Samarasekara

○ Gagana125

TECHNICAL SKILLS

- **Programming Skills**

  Java   Python

  C   C++

- **Frontend Technologies**

  HTML   CSS

  React.js   Javascript

- **Backend Technologies**

  Node.js

- **Mobile App Development**

  Flutter

- **Database**

  MySQL   PostgreSQL

- **AR / VR Technologies**

  Mind AR   AFrame

  Three.js

- **Application & Tools**

  Figma   Trello

  Draw.io   Lucid chart

  Microsoft Office 365

PROFILE

A final-year undergraduate at the University of Colombo School of Computing, passionate about web development, and AR/VR, values teamwork, is involved in extracurricular activities and sports. and is eager to contribute to the IT industry. I believe in a well-rounded approach to personal and professional development.

EDUCATION

BSc. (Hons.) Computer Science (Reading)   2021-2025
University of Colombo School of Computing
GPA: 3.60

Diploma in Information Technology   2020-2021
University of Colombo School of Computing
GPA: 3.69

Training Course on Java Application Development using JavaSE   2020
University of Colombo School of Computing

Certificate Course in Oracle Cloud Infrastructure Foundation   2023
Oracle University

G.C.E Advanced Level - Physical Stream   2005-2018
Sri Sumangala Balika Maha Vidyalaya
Results : Combined Mathematics - A, Chemistry - B, Physics - C, General English - A

WORK EXPERIENCE

University of Colombo School of Computing   2023 NOV - 2024 MAY
Software Engineer (Research Intern)

PROJECTS

INTERLEARN
Institute Management System - 2nd year group project
Interlearn is an institute management system which gives a learning management system for both students and teachers, including some employee management of the institute.

- **Role** - Group Leader, Full Stack Developer
- **Key contributions** - Course component, Announcement component full stack
- **Technologies** - HTML, CSS, JavaScript, PHP, MySQL

TRAVELMATE
Travel Planning Mobile App - 3rd year group project
TravelMate is a trip planning mobile app where we can plan a trip in Sri Lanka very effectively which including a community as well where everyone can connect, discover, plan in one app.

- **Role** - Full Stack Developer
- **Key contributions** - Marketplace, Leaderboard, UI/UX
- **Technologies** - Flutter, Node.js, PostgreSQL

PERSONAL SKILLS

- Team Management
- Leadership Skills
- Communication Skills
- Time Management
- Self Learning
- Adoptability
- Problem Solving

INTERESTS

- Learning New Technologies
- AR/VR
- Video editing
- Writing
- Table Tennis
- Singing and dancing

EXTRA CURRICULAR

- Member of University Table Tennis
- Member of Rotaract Club of UCSC
- Was a Team Leader of Incoming Global Talent for AIESEC in University of Colombo
- Was a participant of NATCON 2022 in Sri Lanka representing University of Colombo AIESEC team

Content Management System - Web AR
Internship Project

An innovative AR-based CMS enabling users to define dynamic 3D model interactions, such as color changes, media playback, resizing, and navigation. It offers a seamless interface for assigning content to targets, dynamically rendering them based on user-defined mappings, and managing the AR experience effortlessly.

- **Role** - Full Stack Developer
- **Key contributions** - UI/UX, Content Changing
- **Technologies** - React.js, Node.js, PostgreSQL, Mind AR

Real time Illumination for App based AR
Resarch Project

This research aims to develop a mobile app-based AR application that detects environmental light direction in real time and applies it to virtual objects for photorealistic rendering. Focusing on shadows and reflections, it achieves AR realism without heavy computation or additional hardware, leveraging ARCore and Three.js for dynamic alignment with real-world lighting.

- **Technologies** - Java, ARCore, Three.js

ACHIEVEMENTS

All island Inter School Table Tennis Tournaments (2009 - 2018)
Championship, Runners-up, or 2nd Runners-up every year

Theory of Music Examination of International Institute of Music, Speech, and Drama (2014 and 2015)
Prize Winner

COLLABORATIONS

Organizing Committee - Hackaholics 5.
Member of Logistics and Finance team

Organizing Committee - AIESEC LCM
Member of Incoming Global Talent OC

PARTICIPATIONS

CODESRPINT 7.0
By IEEE Student Branch of IIT

REFERENCE

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