

# HIRUJA EDURAPOLA

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## EDUCATION

2016 - PRESENT

SRI SUMANGALA COLLEGE - PANADURA

Currently Studying in Grade 10.

2024 - PRESENT

**CS50 PYTHON COURSE**, UNIVERSITY OF HARVARD

Currently Enrolled (Foundational Computer Science)

2024 - 2025

**BASICS OF ROCKET SCIENCE**, UNIVERSITY OF MICHIGAN | COURSERA

Grade Achieved: 89.02%

2024 - 2025

**QUANTUM PHYSICS INTRODUCTION**, MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) | CURSA

2024

**GOOGLE ANALYTICS CERTIFICATION**, GOOGLE INC.

2022

**WEB DEVELOPMENT**, VIDUHALA.LK

## SKILLS

- **Programming Languages:** Python, JavaScript (JS), C#, C++, HTML, CSS, React
- **Game Development:** Unity, Godot (GDScript), 3D Modeling (Blender)
- **Software/Tools:** Linux, Adobe Photoshop (PS), DaVinci Resolve, Arduino
- **Core Concepts:** Mathematics-based Algorithm Development, Cost/Performance Optimization, Web Analytics (Google Analytics)

## PROJECTS

Project	Description	Technical Focus
CanSat (In Progress)	Designing and constructing a functional CanSat as a comprehensive hands-on exercise in aerospace engineering principles.	C++, Arduino, Hardware Integration, Data Acquisition, Systems Design
Skyora	An image enhancement platform developed solely using mathematical algorithms, completely avoiding Machine Learning/AI, to reduce costs.	Python, Custom Algorithm Development, Performance Optimization, Low-End Device Compatibility
StudySync	A full-suite web application designed for school students featuring organization tools, shared notes, a built-in AI assistant for chat, and a study plan generator/tracker.	HTML, CSS, JavaScript, React, System Architecture, API Integration
Sneak	A dedicated parental control application that periodically captures and records device screenshots for monitoring purposes.	Python, Background Processes, System Utilities
SJ Trainer	A unique Chess Trainer that prompts users to calculate the best move for random positions taken from real-world games, focusing on calculation over known puzzle solutions.	Game Logic, Data Handling, Javascript

## ACHIEVEMENTS AND AWARDS

- **2nd Runner-Up** – National Game Development Competition (Exe 2025)
- **2nd Runner-Up** – Exhibition organized by Arthur C. Clarke Institute for Modern Technology & Ministry of Science and Technology
- **1st Place** – Web Development, BTUI 24 (Royal College Colombo)
- **1st Place** – Python Programming Competition, Prince of Wales College
- **District 1st Place** – Sri Lanka School Chess Individual Championship 2024 (U17 Boys, Kalutara Zonal)

## PUBLICATIONS

- A Mathematics-Based Astrophotography Image Enhancement Method for Low-End Devices and Embedded Camera Systems  
**View Paper:** <https://doi.org/10.5281/zenodo.17987416>

## **SCHOOL ROLES**

- **School Prefect**
- **Top board (Editor)** – Astronomical Society
- **Top board (Editor)** – Environment Society
- **Editor/Graphic Designer/PR Team** – Leo Club
- **Editorial Panel** – Aeronautical Society
- **Highly Notable Member** - ICT Society
- **Member** - Graphistics Society

## **LANGUAGES**

- **Sinhala - Native**
- **English - Proficient (B2 Level)**
- **Spanish - A2 Level**
- **French - A2 Level**

**Date: 26/12/2025**

**Hiruja Edurapola**