

# Buvindu Suraweera

📍 Colombo, Sri Lanka    ✉ buvindus.23@cse.mrt.ac.lk    ☎ 076 671 8790

in Buvindu Suraweera    🌐 BuvinduS

## Areas of Interest

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- Embedded Systems and IoT
- Robotics and Automation
- Computer Vision
- Web Development and Software Engineering
- Machine Learning (ML) and Artificial Intelligence (AI)

## Education

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**University of Moratuwa, Sri Lanka**

March 2024 – to date

*B.Sc Engineering (Undergraduate) (Computer Science and Engineering)*

**D.S.Senarayaka College, Colombo, Sri Lanka**

January 2009 – January

*G.C.E Advanced Level 2022(2023)*

2023

- **Z-Score:** 2.1365
- **Stream:** Physical Science Stream
- **Subjects :** Combined Mathematics (**A**), Physics (**A**), Chemistry (**A**), General English (**A**)

*G.C.E Ordinary Level Examination 2019*

- **Subjects :** Mathematics (**A**), Science (**A**), History (**A**), Buddhism (**A**), English (**A**), Sinhala Language & Literature (**A**), Business & Accounting Studies (**A**), Appreciation of English Literary Texts (**A**), Information & Communication Technology (**A**)

**Wendy Whatmore Academy of Speech & Drama**

2008 – 2019

*Written and Spoken English*

## Experience

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**B.Sc Engineering (Undergraduate)**

University of Moratuwa

*Department of Computer Science and Engineering, Faculty of Engineering*

January 2024 – to date

## Projects

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**Custom Nano-Processor**

[Nano-Processor](#) 

- Developed a 8-bit nano processor capable of executing various instructions using hardware description languages
- Tools Used: VHDL, AMD Vivado™ Design Suite

**Gesture Based Media Controller**

[Gesture Volume Controller](#) 

- Designed an intuitive gesture-based interface using **OpenCV** and **MediaPipe** to dynamically adjust system volume, exploring touchless interaction.
- Mapped detected gestures to system volume control using **Pycaw**
- Uses **Numpy** and an **Exponential Moving Average** to ensure stability.

- AI powered travel planning platform
- Designed and developed as a part of Team\_404 for the competition Idealize 2025.
- Handled API management and backend development.

## Certificates & Achievements

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- **Fundamentals of Accelerated Data Science : *NVIDIA Deep Learning Institute*** [Certificate](#)  
Execution of end-to-end GPU accelerated data science workflows
- **The Arduino Platform and C Programming : *Coursera, University of California, Irvine*** [Certificate](#)  
Skills Gained include : Embedded Software handling, C (Programming Language), Computer Hardware handling, Micro-controller Usage.
- **Finalist - Idealize 2025**  
National Mobile App and Web Development competition organized by AIESEC in University of Moratuwa .
- **HackerRank Skill Certification : Python (Basic)** [Certificate](#)  
Covers topics like Scalar Types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects and Types and Classes
- **Wendy Whatmore Academy of Speech & Drama : Written English** : Grade 1 (Distinction), Grade 2 (Distinction), Grade 3 (Merit), Grade 4 (Honours), Grade 5 (Distinction), Grade 6 (Merit), Grade 7 (Honours)
- **Wendy Whatmore Academy of Speech & Drama : Spoken English** : Grade 1 (Distinction), Grade 2 (Distinction), Grade 3 (Distinction), Grade 4 (Distinction), Grade 5 (Distinction)
- **First Place - Spoken English Examinations, 2016**  
Wendy Whatmore Academy of Speech & Drama
- **First Place - Spoken English Examinations, 2013**  
Wendy Whatmore Academy of Speech & Drama

## Soft Skills

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- Problem Solving
- Teamwork & collaboration
- Proficiency in various technologies
- Creativity
- Time Management
- Strong bilingual communication skills

## Personal Information

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- **Full Name** : Buvindu Umesh Don Suraweera
- **Citizenship** : Sri Lankan
- **Communication Proficiency**
  - English (excellent fluency)
  - Sinhala (excellent fluency)