

# Vishmith Suranjaya

📍 Colombo, Sri Lanka 📩 suranjaya0327@gmail.com ☎ +94 76 966 2495  
🔗 vishmithsuranjaya.vercel.app 💬 linkedin.com/in/vishmithsuranjaya  
👤 github.com/vishmithSuranjaya



## Summary

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Motivated Computer Science undergraduate with a strong passion for software development and creating meaningful digital experiences that blend creativity with functionality. Skilled in React.js and Python, with a keen interest in continuous learning and problem-solving. Known for a thoughtful, detail-oriented approach and driven by the belief that growth begins beyond comfort zones.

## Education

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**Uva Wellassa University**, BSc(hons) in Computer Science and Technology 2022 – Present  
• GPA: 3.77/4.0

**Karandeniya Central College**, Advanced Level (A/L)

**Karandeniya Central College**, Ordinary Level (O/L)

## Skills

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React.js, Tailwind CSS, JavaScript, C

Python, Django, Java, Maven, PHP, Jupyter Notebook, TensorFlow

MySQL, PostgreSQL, Firebase

Flutter, Kotlin

Git, Github

## Research Project

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**Energy-Efficient Deep Learning on ARM Architectures using Spiking Neural Networks (SNNs)** 2025 – Present

**Deep Learning, Nvidia Jetson Nano, Python**

*Uva Wellassa University*

- Investigating the feasibility of deploying optimized Spiking Neural Networks (SNNs) on ARM-based embedded systems for energy-efficient AI inference.
- Developing a baseline ANN and SNN using the N-MNIST dataset and applying model-level optimizations such as quantization and pruning to improve latency, memory, and power efficiency.
- Conducting performance benchmarking to evaluate accuracy, energy consumption, and computational cost against conventional deep learning models.
- Exploring hardware-software optimization strategies to leverage ARM features for efficient SNN deployment.
- Assessing scalability and potential integration of SNN-based models for real-time edge AI applications in IoT, robotics, and autonomous systems.

## Projects

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### Seagrass Srilanka

**React, Django, Flask, PostgreSQL, Python, PyTorch, Azure OpenAI, Unity**

05/2025 – 07/2025

[View Project](#) ↗

- Built a React frontend integrated with a Django + PostgreSQL backend for dynamic content management.
- Developed a Flask microservice hosting a PyTorch-based model for automatic seagrass species recognition.
- Designed an AI-powered digital platform supporting seagrass conservation in Sri Lanka, integrating species identification, educational blogs, and an immersive 3D virtual underwater experience.
- Leveraged the Azure OpenAI API to optimize blog content and enable AI-driven writing assistance for enhanced educational outreach.

### Cloudify

**Flutter, OpenWeatherAPI, Lottie**

02/2025 – 03/2025

[View Project](#) ↗

- Real-Time Weather Data: Fetch and display accurate weather information including temperature, conditions, and city name, with automatic real-time updates.
- Clothing Recommendations: Provide personalized clothing suggestions based on current weather conditions, offering a unique feature that differentiates the app from standard weather platforms.

### estateEase

**PHP, MySQL, JavaScript, HTML, CSS**

04/2024 – 07/2024

[View Project](#) ↗

- An innovative real estate platform that streamlines property transactions with features like bidding, Google Maps integration, advanced search and filter options, secure payments, and an installment calculator.

### QuickNotes

**Flutter**

2025 – Present

[View Project](#) ↗

- Developing an innovative note-taking application featuring offline voice-to-text input, smart tagging. Focused on on-device processing for privacy, speed, and seamless user experience without internet dependency.

## Soft Skills

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Communication

Adaptability

Problem Solving

Teamwork

## Certifications

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**PMP Basics** Simplilearn

**Machine Learning Using Python** Simplilearn

**AI/ML Engineer - Stage 1** SLIIT

## Achievements

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**Dean's List**

Faculty of Applied Sciences,  
Uva Wellassa University

## References

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**Dr. K. P. P. S. PATHIRANA** Senior Lecturer, Department of Computer Science and Informatics, Faculty of Applied Sciences, Uva Wellassa University, Badulla, Sri Lanka. suneth@uwu.ac.lk  
+94 77 777 7682

**Mr. Thilina Gunarathne** Lecturer, Department of Computer Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka. thilinag@eng.pdn.ac.lk  
+94 70 251 8627