



# Nuwan Kannangara

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## About me

I am a motivated and detail-oriented undergraduate specializing in Electronic and Telecommunication Engineering, driven by a passion for cutting-edge technologies like Machine Learning, Computer Vision, Blockchain, and Software Development. With a strong academic background and hands-on experience, I am eager to push the boundaries of innovation and contribute to impactful solutions in the tech industry.

## Skills

**Technical Skills** Machine learning, Image processing, Pattern Recognition, Object oriented programming, Web development, Blockchain  
**Languages** Python (*Proficient*), C++ (*Intermediate*), MATLAB (*Beginner*), Java (*Beginner*), JavaScript (*Beginner*), C# (*Beginner*)  
**Tools** VSCode, Git, Colab, Kaggle, AWS, Docker, MongoDB, Spring Boot, Node.js, Linux, Unity, Altium Designer, SOLIDWORKS  
**Communication** English (*Professional Proficiency*), Sinhala (*Native Proficiency*)

## Education

### University of Moratuwa

2021 – Present

B.Sc. Eng. Hons. in Electronic and Telecommunication Engineering

- **CGPA:** 3.89/4.0 (Up to Semester 6) — **Dean's List:** Semester 1, 2, 4, 5, 6
- **Minor:** Mathematics (Following)

#### Related Coursework:

- Applied Statistics (A+)
- Numerical Methods (A+)
- Linear Algebra (A+)
- Differential Equations (A+)
- Calculus (A)
- Neural Network and Fuzzy Logic (A+)
- Software Design Competition (A+)
- Pattern Recognition (A+)
- Digital Signal Processing (A)
- Data Structure and Algorithms (A)
- Digital Signal Processing (A)
- Deep Learning for Vision (A)

### Sri Bodhiraja College, Embilipitiya

2006 – 2019

G.C.E Advanced Level Examination

- Z-Score: 2.3895 — Island Rank: 269 — District Rank: 10
- 3 As: Combined Mathematics, Physics, Chemistry

G.C.E Ordinary Level Examination

2016

- 9 As (English Medium)

### Other Courses

- AWS Certified Solutions Architect Associate (SAA-C03): Udemy Course Dec 2023
- LSEG CPP Course Oct 2023
- Supervised Machine Learning: Stanford University Sep 2023

## Experience

### LiveRoom Pvt Ltd

Nov 2023 - Aug 2024

Trainee Software Engineer

- Contributed to the design, development, and testing of scalable server-side applications.
- Focused on implementing blockchain-based solutions, ensuring reliability and performance.
- Gained hands-on experience in backend development, including database management, API integration, and server-side optimization.

#### Industrial Training Project: Kaiju Wallet

- Developed a multi-blockchain SaaS wallet application, specializing in wallet creation and transaction signing using Python and Node.js.
- Contributed to architectural design with a focus on security and scalability.
- Utilized AWS cloud infrastructure for deployment and management.
- Conducted load testing and performance optimization to enhance application efficiency and reliability.

## Projects

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### Enfluent: Personalized Language Learning through Adaptive Learning Management Systems

Ongoing

- The Enfluent project aims to revolutionize personalized language learning for IELTS students by integrating features such as an automated grading system, interactive avatars, engagement detection using IoT data, and speech evaluation.
- The development leverages technologies like Java Spring Boot and Python FastAPI for backend, React.js for frontend, PostgreSQL and MongoDB for databases, and the Expo framework for app development.

### Power Zoo Game

Jan 2024 – June 2024

- Power Zoo is an educational game that immerses players in a virtual zoo environment while promoting energy conservation through interactive gameplay and quizzes.
- The project features a React.js frontend, a backend powered by Java Spring Boot, and MongoDB for data management.
- The game was developed using Unity to provide visually engaging and interactive simulations.

### Brain Tumor Segmentation

Nov 2023

- Developed a model to detect brain tumors and automatically label their types.
- The project was implemented using Python, leveraging machine learning techniques for accurate tumor segmentation

### LSEG Coding Competition

Sep 2023



- Designed a trading app for exchanging five variances of flowers.
- The app was implemented in C++ using Object-Oriented Programming (OOP) concepts.

### Other projects

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|---|-----------|
| – Smart Time Stamp Recorder  | May 2024  |
| – Digital Volt-Amp meter     | July 2023 |
| – Five Band Audio Equalizer  | Feb 2023  |
| – Maze Following Robot      | Jan 2023  |
| – Multi-functional Lamp    | Oct 2022  |

## Achievements

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- |   |          |
|---|----------|
| – Achieved <b>1st Runner-Up</b> in the <b>VRcade Competition</b>                       | Dec 2024 |
| – Secured a position in the <b>Top 3 Teams</b> at the <b>LSEG Coding Competition</b>  | Oct 2023 |
| – Participated in the <b>IEEEExtreme 17.0 Programming Competition</b>   | Oct 2023 |

## Extra-curriculars

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### University of Moratuwa

- Treasurer of IEEE ComSoc Branch – year 2024/25
- Assistant Treasurer of IEEE ComSoc Branch – year 2023/24
- Committee member of IEEE ComSoc Branch – year 2022/23

### Sri Bodhiraja College

- Deputy Head prefect - 2016
- Senior prefect - 2014 – 2016

## References

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### Dr. Chamira Edussooriya

BSc Eng (Moratuwa), MAsc (UVic), PhD (UVic), MIEEE  
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### Dr. Sampath K. Perera

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