

# Nuwan Kannangara

**\** +94 77 940 5399 —

#### 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

**Programming Languages** Python (*Proficient*), C++ (*Intermediate*), MATLAB (*Beginner*), Java (*Beginner*), JavaScript (*Beginner*), C# (*Beginner*)

Frameworks & Tools VSCode, Git, Colab, Kaggle, AWS, Docker, MongoDB, Spring Boot, Node.js, Linux, Unity, Altium Designer. SOLIDWORKS

Communication Skills English (Professional Proficiency), Sinhala (Native Proficiency)

#### Education

## University of Moratuwa 2021 – Present

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

CGPA: 3.90/4.00 (After 7 semesters) — Dean's List: Semester 1, 2, 4, 5, 6, 7

Minor: Mathematics (Following)

#### **Related Coursework:**

Applied Statistics (A+)
 Numerical Methods (A+)
 Linear Algebra (A+)
 Differential Equations (A+)
 Digital Signal Processing (A)
 Pattern Recognition (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

2019

9 As (English Medium)

#### **Other Courses**

Java Object-Oriented Programming ☑
 AWS Certified Solutions Architect Associate (SAA-C03): Udemy Course
 LSEG CPP Course ☑
 Oct 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.
- Collaborated effectively with cross-functional teams, enhancing project outcomes through clear communication and teamwork.

## 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.
- Used GitLab for version control to manage codebase and streamline collaboration.

## 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 for reading, writing, listening, and speaking according to IELTS criteria, interactive avatars, and engagement detection using IoT data.
- The development leverages technologies like Java Spring Boot and Python FastAPI for backend, React.js for frontend,
   PostgreSQL and MongoDB for databases, Expo framework for app development, and Git for version control.

## Power Zoo Game Z 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, MongoDB for data management, and Git for version control.
- 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

-	E-commerce app 🗹	Jan 2025
_	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

#### **Acheivements**

_	Achieved <b>1st Runner-Up</b> in the <b>VRCade Competition</b> as part of a 3-member team.	Dec 2024
_	Secured a position in the Top 3 Teams at the LSEG Coding Competition 🗹	Oct 2023
_	Participated in the IEEEXtreme 17.0 Programming Competition	Oct 2023

#### Extra-curriculars

#### University of Moratuwa

_	Treasurer of IEEE ComSoc Branch	2024 - Present
_	Member of Eclub	2022 - Present
_	Assistant Treasurer of IEEE ComSoc Branch	2023 - 2024
_	Project Demonstrator at EXMO: Demonstrated Analog Project	2023
_	Committee member of IEEE ComSoc Branch	2022 - 2023

#### Sri Bodhiraja College

_	Deputy Head prefect	2016
-	Senior prefect	2014 – 2016

## References

#### Dr. Chamira Edussooriya

BSc Eng (Moratuwa), MASc (UVic), PhD (UVic), MIEEE Senior Lecturer

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## Dr. Sampath K. Perera

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