



Nuwan Kannangara

+94 77 940 5399 — kannangaranv@gmail.com — [in linkedin.com/in/kannangaranv](https://www.linkedin.com/in/kannangaranv) — github.com/kannangaranv
No 80, Hinguraara, Embilipitiya, Sri Lanka

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 <i>B.Sc. Eng. Hons. in Electronic and Telecommunication Engineering</i> – 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+) — Software Design Competition (A+) – Numerical Methods (A+) — Pattern Recognition (A+) – Linear Algebra (A+) — Digital Signal Processing (A) – Differential Equations (A+) — Data Structure and Algorithms (A) – Calculus (A) — Digital Signal Processing (A) – Neural Network and Fuzzy Logic (A+) — Deep Learning for Vision (A)	2021 – Present
Sri Bodhiraja College, Embilipitiya <i>G.C.E Advanced Level Examination</i> ↗ – Z-Score: 2.3895 — Island Rank: 269 — District Rank: 10 – 3 As: Combined Mathematics, Physics, Chemistry <i>G.C.E Ordinary Level Examination</i> ↗ – 9 As (English Medium)	2006 – 2019 2019 2016
Other Courses – AWS Certified Solutions Architect Associate (SAA-C03): Udemy Course – LSEG CPP Course ↗ – Supervised Machine Learning: Stanford University ↗	 Dec 2023 Oct 2023 Sep 2023

Experience

LiveRoom Pvt Ltd ↗ <i>Trainee Software Engineer</i> – 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.	Nov 2023 - Aug 2024
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Projects

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 1st Runner-Up in the VRCade Competition  | Dec 2024 |
| – Secured a position in the Top 3 Teams at the LSEG Coding Competition  | Oct 2023 |
| – Participated in the IEEEExtreme 17.0 Programming Competition | Oct 2023 |

Extra-curriculars

University of Moratuwa

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| – 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

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| – Deputy Head prefect | 2016 |
| – Senior prefect | 2014 – 2016 |

References

Dr. Chamira Edussooriya

BSc Eng (Moratuwa), MAsc (UVic), PhD (UVic), MIEEE
Senior Lecturer
Department of Electronic and Telecommunication
Engineering
Faculty of Engineering
University of Moratuwa
10400, Moratuwa, Sri Lanka
Phone: +94 71 165 6562
Email: chamira@uom.lk

Dr. Sampath K. Perera

BSc Eng (Moratuwa), M.E.Sc. (Western), Ph.D. (RUB), MIEEE
Senior Lecturer
Department of Electronic and Telecommunication
Engineering
Faculty of Engineering
University of Moratuwa
10400, Moratuwa, Sri Lanka
Phone: +94 70 572 6264
Email: sampath@uom.lk