




Oshan Sandeep Amarasooriya


COMPUTER SCIENCE & ENGINEERING UNDERGRADUATE

About Me


A passionate Computer Engineering student with a solid background in algorithms, programming languages, deep learning and software development.

Contact

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Skills

• Programming Languages:

- Python | Java | C | C++ | Javascript | Typescript | VHDL

• Technical Fields:

- Deep Learning | Large Language Models | Full Stack Development | Android Development | Databases and DBMS

• Databases:

- MySQL | SQLite | Weaviate | MongoDB

• Tools & Services:

- Git | Hugging Face | OpenAI APIs | AWS

• Frameworks:

- Angular | React | FastAPI | SpringBoot | Express.js | Java Swing

Education

- BSc Eng Hons, Computer Science & Engineering
University of Moratuwa, Sri Lanka 2021 - Present
CGPA 3.47
- H/Weeraketiya Central College, Sri Lanka 2011 - 2019
 - G.C.E A/L 2019: 3 A Passes (Physical Science Stream) | Island rank 87, District rank -2
 - G.C.E O/L 2016: 8 A Passes and 1 B Pass | District rank -2

Certifications

- Introduction to frontend development - Meta ([cert](#))
- AWS Knowledge: Cloud Essentials - Amazon Web Services Training and Certification
- Disaster Risk Monitoring Using Satellite Imagery- NVIDIA Deep Learning Institute ([cert](#))

Experience

- **CodeGen International (Pvt) Ltd** 2023 Dec - 2024 Jun
Software Engineering Intern.
 - Designed, developed, and integrated a PDF-based question-answering system for the Lia AI Chatbot, enabling efficient extraction and retrieval of information from document-based sources.
 - Designed, developed, and tested a web application for hotel room reservations.
 - Experience with: Python, Java, TypeScript, Angular, SpringBoot, FastAPI, Docker, CI-CD Pipelines, PyPDF, Tesseract ocr, Retrieval Augmented Generation and Multi-agent Systems.

🔗 Highlights

- **SLT Mobitel Code-Blast Hackathon 2023:** representing one of the top 14 teams among 70+ teams
- **Merit Pass -G.C.E Advanced Level 2019:** island rank 87, district rank 2-Hambantota

🔗 Soft Skills

- Communication skills
- Leadership
- Teamwork
- Time management
- Fast Learning & Adaptability

🔗 Volunteering

IEEE Student Branch University of Moratuwa
Editorial Board
Aug 2022 - Dec 2022

📖 References

Dr. Chathuranga Hettiarachchi

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Faculty of Engineering,
University of Moratuwa

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MR. Dulanjaya Tennekoon

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📁 Projects

● EdgeCare (Final Year Project- Ongoing)

2024 Jul - Present

- Privacy-preserving medical assistance system for mobile devices combining fine-tuned on-device BERT Models for Protected Health Information (PHI) de-identification and cloud-based Multi-agent system (MAS) along with retrieval-augmented generation(RAG).
- The solution ensures privacy by de-identifying sensitive data on the device before leveraging the RAG system and MAS for accurate, context-aware medical responses.
- **Tech stack:** *Python, FastAPI, Kotlin, SQL, ObjectBox, LangGraph*

● CheckInn – Hotel Management Assistant

2024 Oct- 2025 Jan

- Designed and developed a full-stack web application that simplifies hotel management. Integrated a streamlined user interface with efficient backend logic for a seamless user experience.
- **Tech stack:** *Angular, SpringBoot, MySQL*

● Deep Learning From Scratch

2024 Aug - 2024 Oct

- Developed a Fuzzy Logic System in Python for sentiment-based clustering of social media posts.
- Built an MLP from scratch for binary classification on the MNIST dataset.
- Designed and implemented an RNN in PyTorch for word autocomplete.
- Implemented custom convolutional and pooling layers; used Keras to build a CNN for CIFAR-10 image classification.
- **Tech stack:** *Python, numPy, PyTorch, Tensorflow, Keras*

● Inventory Management system

2023 Sep - 2023 Nov

- Developed a web application for university lab inventory management, enabling administrators to update equipment status, schedule maintenance, and manage reservations. Provided staff and students with online equipment and lab area booking functionality.
- Live demo: <https://inventory-t4nh.onrender.com/>
default username: ramesh50, password: 1234
- **Tech stack:** *React, Express.js, Node.js , MySQL*