

LAHIRU DILSHAN

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SUMMARY

Computer Science and Engineering undergraduate focused on machine learning and software engineering, with experience in data processing, model experimentation, and project-based development. Strong programming foundation with exposure to system design, processor architecture, and hardware description languages.

EDUCATION

University Of Moratuwa <i>B.Sc. Engineering (Hons) in Computer Science and Engineering.</i>	Moratuwa, Sri Lanka March 2024 – Present
Rahula College <i>G.C.E A/L Examination Physical Science Stream (Result : AAA , Island Rank : 221)</i>	Matara, Sri Lanka Jan. 2023

SKILLS

Machine Learning Frameworks: PyTorch, TensorFlow, scikit-learn, OpenCV, Ultralytics YOLO
Data Analysis Tools: NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook
Languages: Python, Java, C/C++, SQL , TypeScript
Frontend Frameworks: React, Next.js, Flutter, Expo, Tailwind CSS
Backend Frameworks: FastAPI, Nest.js, Node.js, Spring Boot, Express.js, Sequelize
Developer Tools: Git, Docker, Postman, AWS, GitHub Actions, Linux, Terraform

EXPERIENCE

Software Engineer <i>AISEEC Development Team Sri Lanka</i>	Aug. 2025 – Feb. 2026
- Led CRM database migration from legacy schema to a redesigned structure by developing automated scripting pipelines to transform and validate data, ensuring consistency and minimizing downtime - Optimized high-traffic CRM queries by refactoring SQL and improving indexing strategies, reducing response time and improving overall system performance - Implemented a new oGV workflow within the CRM by enhancing business logic and integrating end-to-end process steps to streamline operations and improve data accuracy	

SELECTED PROJECTS

NeuroFly [Project Proposal]	Nov. 2025 – Present
- Built a drone-based power-line inspection workflow with image/video capture and labeling. - Trained and integrated a YOLOv8 model to detect and classify line-related faults. - Implemented a ground-station pipeline to upload, store, and organize inspection data. - Created a web dashboard to review detections, filter runs, and generate reports.	
TalkLess <i>Cross-platform Desktop Soundboard & Audio Mixer</i>	Aug. 2025 – Oct. 2025
- Developed a real-time soundboard + microphone-mixer desktop app using C++20 and Qt 6/QML with hotkeys and multi-device routing. - Implemented low-latency audio processing with RNNoise noise suppression, SpeexDSP gain control, and LUFS loudness normalization. - Added teleprompter + live transcription via OpenAI Realtime/WebSocket APIs and built clip editing/format support using FFmpeg. - Delivered secure login + cloud sync with OAuth 2.0 and set up cross-platform CI/CD, packaging, and automated releases.	
SkyNest Hotels [GitHub Link]	Aug. 2025 – Oct. 2025
- Developed a full-stack hotel management system to streamline reservations, room inventory, and guest billing - Designed a robust database schema to efficiently handle complex booking schedules and prevent conflicts - Implemented role-based authentication to secure administrative features and protect sensitive guest data - Deployed the application on AWS EC2 using a CI/CD pipeline to automate testing and reduce deployment time	

AWARDS AND LEADERSHIP

President's Scout Award | *Sri Lanka Scouts Association*

June 2023

- Received the highest national honor for a Scout, presented by the President of Sri Lanka for exemplary leadership and service

Colors Award | *Rahula College Matara*

Dec. 2025

- Awarded Rahula College Colours in recognition of outstanding performance and sustained dedication to Scouting

REFERENCE

Gunavaran Brihadiswaran

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