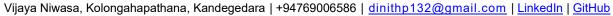
DINITH PRIYANKARA

COMPUTER ENGINEERING UNDERGRADUATE





PROFILE SUMMARY

Final year Computer Engineering undergraduate with a strong interest in building intelligent, scalable, and impactful technology. Experienced in backend development, machine learning, and embedded systems, with hands on involvement in real world projects from full-stack web platforms to Al-powered computer vision applications and IoT-based systems. Skilled at collaborating across teams and adapting quickly to new technologies. Driven by curiosity and a deep passion for solving real problems through practical innovation in software, Al, and hardware.

EDUCATION

BSc. Engineering (Hons.) In Computer Engineering

Apr 2022 - Present

University Of Jaffna

PROJECTS

Automated Examination System (GitHub)

Jan 2025 - Jun 2025

- Built the backend for a full-stack examination system with Spring Boot and PostgreSQL, featuring
 user auth, exam management, and result processing.
- Designed database schema, optimized queries, and implemented role-based access control (RBAC).
- Collaborated with frontend devs to define API contracts and ensure smooth integration.

Tech Stack: Spring Boot, PostgreSQL, React, REST APIs, Git, GitHub

All-in-One Adventure Companion Wearable (GitHub)

Jan 2025- Apr 2025

- Developed a Flutter application for Bluetooth Classic communication between Android devices and the ESP32-based wearable, enabling device scanning, connection management, and terminal-style data exchange.
- Coordinated closely with hardware and firmware teams to ensure seamless integration and reliable communication between the wearable and the mobile app.

Tech Stack: Flutter, Dart, Bluetooth Classic, ESP32, ESP-IDF, Embedded C

WebRTC Music Jam Platform (GitHub)

Mar 2025- Jun 2025

- Developed a real-time collaborative music jamming web application using WebRTC, Socket.IO, and JavaScript. Enabled musicians to join virtual rooms for low-latency audio/video streaming, text chat, screen sharing, and interactive mic/camera control.
- Designed a responsive UI for seamless use across devices, facilitating remote band practice, songwriting, and live collaboration.

Tech Stack: WebRTC, Socket.IO, Node.js, JavaScript, HTML/CSS

Football Player Detection with YOLOv8 (GitHub)

Oct 2024- Dec 2024

(Certificate link)

- Fine-tuned a YOLOv8 object detection model to accurately detect football players and referees in match footage. Integrated with OpenCV for real-time video processing and visualization, including automatic team-wise player identification and marking.
- Enabled enhanced player tracking and analytics in sports video analysis.

Tech Stack: Python, YOLOv8, OpenCV, PyTorch

SKILLS

- Programming Languages: Java, Python, C++, JavaScript (Vanilla)
- **Software Development:** Spring Boot, REST APIs, SQL, HTML, CSS, CI/CD (GitHub Actions), Test Automation
- Machine Learning & Al: TensorFlow, Keras, scikit-learn, Neural Networks (MLP, CNN, RNN, LSTM), YOLO, Hugging Face Transformers, LangChain, Explainable Al (SHAP, LIME, Integrated Gradients)
- Embedded Systems: ESP32 (ESP-IDF), AVR Programming (ATmega)
- Data & Analytics: NumPy, Pandas, OpenCV
- Networking & Security: Basic network configuration, security protocols
- Tools & Frameworks: Git, Docker, JUnit

CERTIFICATIONS

Javascript Practicals Crash Course
 (Certificate link)

Professional Certificate in SQL and SQL for Data Analysis (Certificate link)

Linux Terminal for beginners

AWARDS AND ACHIEVEMENTS

AlgoXplore 1.0

Jan 2025

MoraXtreme 9.0
 Oct 2024

VOLUNTEERING

IESL Student Member Nov 2023 - Present

 Actively participated in IESL-organized projects like techno exhibition, applying engineering knowledge to solve real-world problems while developing leadership abilities.

REFEREES

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