

MIYURU DILAKSHAN WETTASINGHE

Full-Stack Developer | AI/ML Innovator | IoT & DevOps Enthusiast

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PROFESSIONAL SUMMARY

Adaptable and results-driven Software Engineer with 3+ years of hands-on experience in full-stack development, QA engineering, systems analysis, IoT integration, and embedded systems. Strong technical foundation in Java, JavaScript/TypeScript, React, Next.js, Node.js, Flutter, SQL/NoSQL databases, and cloud deployment. Skilled in API development, real-time data processing, hardware-software interfacing, debugging, test automation, and database design. Experienced in building scalable, user-centered web, mobile, and IoT applications while collaborating in Agile teams. Recognized for rapid learning, strong analytical thinking, and versatility across roles including Software Engineering, QA, UI Engineering, System Support, Web Development, and Database Engineering. Seeking an internship/full-time opportunity to contribute to high-impact, innovative engineering solutions.

EDUCATION

BSc (Hons) Software Engineering Plymouth University, United Kingdom	2023 - Present ID: 10952709
GCE Advanced Level – Engineering Technology (Results: B1, C2)	2022 ID: 3449629
Diploma in ICT (PEARSON ASSURED) ESOFT Metro Campus	2021 ID: EBM/A-004434
Diploma in English (PEARSON ASSURED) ESOFT Metro Campus (Pearson ID: NG05581)	2021 ID: EBM/A-004436
GCE Ordinary Level (Results: A5, B3, C1 IT: A, Maths: A, English: B)	2019 ID: 92529550

SKILL SUMMARY

- **Frontend:** React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind, Responsive UI
- **Backend:** Node.js, Express, Python, Java, .NET, REST APIs, GraphQL, Auth (JWT/OAuth), Microservices
- **Databases:** PostgreSQL, MySQL, MongoDB, Firebase, Prisma/Mongoose
- **Cloud & DevOps:** AWS, Docker, CI/CD, GitHub Actions, Nginx, Linux
- **Mobile:** Flutter, React Native
- **AI/Integrations:** TensorFlow, PyTorch, OpenCV, Real-Time IoT Data
- **Engineering:** OOP, SDLC, Agile, Clean Code, Testing, Debugging
- **Tools:** Git, GitHub, Postman, VS Code, Figma, Jupyter Notebook, Google Colab
- **Soft Skills:** Problem-Solving, Critical Thinking, Team Collaboration, Communication, Adaptability, Time Management, Attention to Detail, Leadership, Creativity, Fast Learning, Decision-Making, Innovation

PROJECTS

GoWay – Smart Transport App - [GitHub Repository](#)

Built cross-platform public transport app with Flutter, Node.js, Firebase, QR payments, GPS tracking, and multi-role dashboards.

Published research paper at NSRSIT 2025.

Technologies & Skills: Flutter, Node.js, Firebase, Full-Stack, REST APIs, UI/UX, GPS Integration, Agile, Google Maps API

AI-Powered Gait Authentication System - [GitHub Repository](#)

Led design of a smartwatch authentication system using AI/ML (CNN/LSTM) for gait recognition. Achieved high accuracy, optimized data usage by 72%, and implemented real-time sensor processing.

Technologies & Skills: Python, MATLAB, AI, Machine Learning, Neural Networks, Data Analysis, Authentication Systems, Leadership

IoT Public Safety & Surveillance System - [GitHub Repository](#)

Developed dual IoT units for air quality monitoring and fire/health detection with Arduino & ESP8266. Delivered real-time alerts with 95–100% reliability.

Technologies & Skills: Arduino, IoT, GPS/GSM, Cloud, Embedded Systems, Real-Time Processing, Project Management

Grocify – Smart E-Grocery App - [GitHub Repository](#)

Led full-stack Flutter app development with Firebase, real-time tracking, voice-enabled shopping, and secure payments.

Technologies & Skills: Flutter, Firebase, Mobile Development, Full-Stack, UI/UX, Payment Integration, Agile, Leadership

Real-Time Air Quality Dashboard - [GitHub Repository](#)

Developed C# ASP.NET Core web app with MySQL backend and interactive Leaflet.js maps for live AQI monitoring with role-based dashboards and alerts.

Technologies & Skills: C#, ASP.NET Core, SQL, Frontend & Backend, Full-Stack, API Development, UI/UX, Testing & QA

LimitlessCinema – Smart Movie Ticket System - [GitHub Repository](#)

Built full-stack web app with Java, JSP, MySQL, and PayPal API. Implemented real-time seat booking, payments, admin dashboard, and email automation.

Technologies & Skills: Java, JSP, MySQL, Full-Stack, Payment Integration, Web Development, UI/UX

Dam Seniya Rentals – Vehicle Rental System - [GitHub Repository](#)

Developed enterprise desktop app with C#, .NET, Windows Forms, and SQL Server. Implemented role-based dashboards, booking logic, and real-time inventory management.

Technologies & Skills: C#, .NET, SQL Server, Desktop App Development, Full-Stack, Team Collaboration

CERTIFICATIONS & COURSES

Industry Preparation Training (IPT) - [Credential](#)

NSBM Green University (Affiliated with University of Plymouth)

Completed an intensive, industry-aligned program designed to bridge academic knowledge with real-world tech careers. Gained hands-on exposure to modern system design, cloud computing, quality engineering, AI integration, and professional brand development. Engaged with top industry leaders from Virtusa, IFS, Dialog Axiata PLC, and 99x, enhancing leadership, problem-solving, strategic career planning, and collaborative execution skills.

DynaLab – MATLAB Workshop Series - [Credential](#)

NSBM Green University

Hands-on workshop focused on mathematical coding and computational problem-solving using MATLAB. Applied data analysis, numerical modeling, and algorithm implementation to real-world scenarios, strengthening AI-driven analytical capabilities and technical proficiency.

Artificial Intelligence & Machine Learning Foundations - [Credential](#)

LinkedIn Learning

Acquired core AI/ML skills including supervised/unsupervised learning, neural networks, data preprocessing, model evaluation, and deployment. Developed the ability to design and implement practical AI solutions for real-world applications.

RESEARCH PUBLICATIONS & INNOVATION HIGHLIGHTS

GoWay: Smartphone-based Public Transport Service (RESEARCH PAPER – NSRSIT 2025)

Co-authored and served as key developer for GoWay, a full-stack mobile app addressing urban mobility in Sri Lanka. Designed and implemented with Flutter, Node.js, Firebase, incorporating QR payments, GPS tracking, emergency response, complaint management, and multi-role dashboards. Led concept, architecture, and scalable solution design. Published at NSRSIT 2025 and KDU-IRC25, demonstrating innovation, technical leadership, and practical, high-impact software development.

LANGUAGES

English – Professional proficiency (reading, writing, speaking)

Sinhala – Native proficiency

REFERENCES

Dr. Rasika Ranaweera

Dean / Senior Lecturer

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NSBM Green University.

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