



Isuranga Warnasooriya

Undergraduate | Former Intern at WSO2

PERSONAL DETAILS

- +94 70 232 8001
- IsurangaWarnasooriya@outlook.com
- [IsurangaWarnasooriya](#)
- [Isuranga-2001](#)
- [Portfolio](#)
- [@isurangawarnasooriya](#)
- [IsurangaWarnaso1](#)
- Kandy, Sri Lanka

EDUCATION

University of Moratuwa (2022-2026)
Faculty of Information Technology
BSc (Hons.) Information Technology (UG)
CGPA: 3.91 / 4.00

Shibaura Institute of Technology (Toyosu), Tokyo, Japan (2025)
Visiting Research Scholar

St. Sylvester's College, Kandy
G.C.E. Advanced Level (2020)

TECHNICAL SKILLS

Programming Languages

- Java
- Python
- Go
- Ballerina
- TypeScript
- C#

Backend Frameworks

- ASP.NET Core
- Express
- NestJS
- FastAPI
- Springboot

ABOUT ME

Final-year IT undergraduate at the University of Moratuwa (CGPA 3.91/4.00) with international research experience in Japan. Skilled in full-stack development, cloud-native platforms, and machine learning, with hands-on contributions to open-source projects and academic research in sensor fusion and computer vision. Passionate about building scalable systems, advancing AI-driven applications, and creating user-friendly solutions that bridge technical innovation with practical impact.

WORK EXPERIENCE

Intern Software Engineer

2025 Feb - 2025 July

WSO2 LLC

- Contributed to open-source healthcare solution development using **Ballerina** and **Java**.
- Gained extensive experience with HAPI-FHIR, WSO2 Choreo, GitHub Actions, and React.
- Projects:
 - Ballerina Terminology Service (Open Healthcare)**
 - Developed a FHIR Terminology Service to manage and perform healthcare terminology-based operations.
 - Utilized Ballerina for backend logic and integrated with Choreo for cloud deployment.
 - Ballerina connector (Internship Onboarding Project)**
 - Developed the connector for HubSpot CRM, writing test cases, creating documentation

Full Stack Developer (Part-time)

2024 Jan - 2024 Jun

Hypercube Labs

- Developed scalable backend features using NestJS, Node/Express, and TypeScript.
- Designed user interfaces using Figma and implemented frontends with React and Tailwind CSS.
- Key Project: **Administration Management System for KIT-IWM**
 - Developed the official website and administration management system for the Kothmale International Training Institute.
 - Contribute as the main backend developer and the business analyst.

More details about experiences in my [Portfolio](#)

OTHER PROJECTS

Hybrid Sensor-Fusion Approaches for ASL Recognition

2025

Research Project | Associated with SIT, Japan

- Proposed a hybrid sensor-fusion framework combining Leap Motion Controller (LMC) and RGB cameras for ASL recognition.
- Addressed the "information bottleneck" of unimodal systems by integrating manual gestures with non-manual markers.
- Suggested a Cross-Modal Attention architecture to handle asynchronous data streams and improve accuracy.

Technologies: Deep Learning, Sensor Fusion, LMC, Computer Vision

Frontend & Mobile Development

- Angular
- React
- Tailwind CSS
- Next
- React Native
- Xamarin

Databases

- MSSQL
- MySQL
- PostgreSQL
- Firebase

Cloud Services

- MS Azure
- AWS
- WSO2 Choreo
- Vercel

AI & ML

- Deep Learning
- Computer Vision
- LLM & RAG
- Prompt Engineering

Other Technical Skills

- Arduino & Robotics
- Figma
- Docker
- Unity Engine
- Desktop App Development
- Linux

CERTIFICATES

Machine Learning with Python

IBM | 2024

Building Services Using ASP.NET

Coursera | 2024

Mathematics for Machine Learning:
Linear Algebra

Imperial College London | 2023

Microsoft Azure Machine Learning

Microsoft | 2023

Certificate in Software Engineering

NIBM | 2018

Details about the certificates in my [LinkedIn profile](#)

ACHIEVEMENTS

Champion - Intellicon 2.0 2024

Inter-University AI/ML Ideathon by AIESEC SLIIT

Champion - Intellicon 1.0 2022

Inter-University AI/ML Ideathon by AIESEC SLIIT

Island Finalist - Imagine Cup 2024

Competition by Microsoft

OTHER PROJECTS (CONT.)

FirstStep | Job Matching Platform

2023 - 2024

(Second Year Software Project)

Full Stack Developer, Project Manager | Associated with UoM

A web application featuring job searches, skill-matching job suggestions, application status tracking, role-based application evaluation process, and interview scheduling. The goal is to automate HR's recruitment process by reducing the delay. Proposed a solution to suggest the nearest best vacancies for the candidates based on their skills by using a matching algorithm.

Technologies: ASP.NET Core, Angular, MSSQL, MS Azure (App Service, Static Web Apps, Blob Storage, Email Service), EntityFramework, CI/CD, xUnit.NET

[View Project](#) [Frontend Repo](#) [Backend Repo](#)

Internify | Internship Tracking System

2024

Backend Developer | Associated with UoM

A web app for tracking internship opportunities of undergraduates in the faculty of IT, allowing CV submissions and creating company folders in Google Drive. [View Project](#)

Technologies: Express, PostgreSQL, AWS (S3, EC2, CloudFront), Sequelize

Power Measuring System for Durden's Hospital

2023 - 2024

Backend & Embedded System Developer | Associated with IES Labs, UoM

An IoT-based project using ESP32, and PZEM 400 to measure the usage of electricity by operation and testing devices in Durden's hospital labs and create usage reports.

Technologies: Express, MySQL, ESP32

Hostel Management System, UoM Welfare Division

2023 - 2024

Full Stack Developer | Associated with DevLabs, UoM

A project to change the currently running Hostel Management System due to its outdated functionalities and new functional requirements.

Technologies: React, Express, MySQL, Sequelize

Indoor Air Quality Monitoring System

2022 - 2023

(First Year Hardware Project)

Full Stack Developer & Embedded System Developer | Associated with UoM

An IoT-based project to monitor the air quality details of an indoor area using sensors, get the live data to a web application and generate reports using the data. [GitHub Repo](#)

Technologies: ESP32, Firebase, MQTT, EasyEDA

Details about my other projects are added to my [Portfolio](#)

EXTRACURRICULAR

Technical Writer

2024 Jan - Present

[Medium](#)

Member & Project Leader

2023 Sep - Present

Research and Development Pillar,
IoT and Embedded System Labs, Faculty of IT, UoM

Member & Developer

2022 Dec - 2024 Dec

FIT DevLabs, Faculty of IT, University of Moratuwa

NON-RELATED REFERENCES

B.H. Sudhantha

Dean, Senior Lecturer,
Faculty of Information Technology,
University of Moratuwa

Phone: +94 71 572 1744

Email: sudhanthabh@uom.lk

Nirmal Fernando

Director - Head of Engineering,
Solutions BU,
WSO2 LLC

Phone: +94 71 577 9733

Email: nirmal@wso2.com