

# Randika Silva

"Dedicated Technologist and Creative Thinker focused on Driving Innovation"

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## EXPERIENCE

### Senior R&D Engineer

Dialog Axiata PLC, Colombo, Sri Lanka

MARCH 2019 - PRESENT

New Product Development from concept to prototype to GTM.

Hands on development on IoT, AI/ML and Digital Transformation applications in terms of developing prototypes and GTM products.

Innovation Strategy formulation and architecture development for platform play offerings inside Dialog.

Research on latest technology advancements in the world and how they can be integrated with products and services.

Management and Coordination with Development teams in designing and development of applications.

Direct engagement and consultation with enterprise customers to enable next generation digitization solutions to enhance their business operations.

Conduct Knowledge sharing sessions for internal and external developer communities.

### Electronic Engineer (Consultant)

Center for Research and Development - Ministry of Defense, Homagama, Sri Lanka

JUNE 2017 - JUNE 2018

Development of Ultra-Wideband based Indoor Positioning System

### Telecom Engineer (Internship)

Etisalat Lanka (Pvt) Ltd, Colombo, Sri Lanka

NOVEMBER 2017 - JANUARY 2018

Assist on Transmission Network Planning, Radio Access Network Optimization and Customer Technical Support

### Embedded Systems Engineer (Internship)

JLanka Power and Energy (Pvt) Ltd, Colombo, Sri Lanka

NOVEMBER 2016 - JANUARY 2017

Development of GoEV Electric Vehicle Charging Platform

## EDUCATION

### MSc in Artificial Intelligence

University of Moratuwa, Sri Lanka.

SEPTEMBER 2021 - PRESENT

### BSc Eng (Hons) in Electrical & Electronic Engineering

SLIIT, Sri Lanka.

JANUARY 2015 - NOVEMBER 2018

## CERTIFICATIONS

### Build Basic Generative Adversarial Networks

DeepLearning.AI | Coursera ID: JYBX3KC57JVN

### Custom Models, Layers, and Loss Functions with TensorFlow

DeepLearning.AI | Coursera ID: S66MY7TATUQR

### Data Citizen Bronze Training

Data Science Academy | Credential ID: 9b527f03-a83e-4278-9ecb-ab3a05fb835f

### Computer Vision with Embedded Machine Learning

Edge Impulse | Coursera ID: 385ESER3YV8F

### AZ-220: Microsoft Azure IoT Developer

Iverson Associates Sdn Bhd | Credential ID: X19-56827

### AI for Everyone (AI4E)®

AI Singapore | ID: 8159552DA7-7F0B5CEB6F-12CEAFE04

## SKILLS

Machine Learning, Internet of Things, Computer Vision, Natural Language Processing, API

## PROJECTS

### Sentiment analysis for call center recordings

An LLM to assess customer interactions and determine the emotional tone of the conversation to improve customer service. (2023)

### Edge video analytics

Develop an edge computer vision solution based on Nvidia and OAK systems. (2023)

### 5G Application - Digital Twin

Demonstrate AI applications using 5G Networks. (2022)

### Govi Mithuru - AI advisory bot

A chat bot application based on a LLM which is fine-tuned by localized knowledgebase. (2022)

### Intelligent Video Content Analyser

Develop a cloud-based application to solve object detection and image classification problems in enterprises. (2022)

### KYC Verification API

Develop customer KYC verification API based on telco services. (2021)

### Metaverse-as-a-Service

Build custom Metaverse experiences for enterprises and implement Non-Fungible Tokens(NFTs). (2022)

### Vaayu - Air Quality Monitoring System

Develop end-to-end solution for an air quality monitoring system including both software and hardware. (2020)

### NB-IoT/Cat-M1 Network Testing

Test NB-IoT Network capabilities with industry use cases. (2019)

### LECO Smart Metering Platform

Platform Migration and develop On-demand request handling (2021)

### Smart City Dashboard

Develop a Geospatial dashboard to monitor city-wide physical parameters. (2020)

### SOOMS - Host seat booking app

Develop a Smart Office Occupancy Monitoring System and hot seat booking engine for shared spaces. (2020)

### Incident Reporting app

Develop a Mobile app to report incidents in the working environments. (2020)

## PROGRAMMING

Python, C/C++, Java, JavaScript, PHP, Dart, VHDL

## FRAMEWORKS/SDK

TensorFlow, PyTorch, Django, Flask, FastAPI, Flutter, Node.JS, PySpark, JAX, Keras, Hadoop, CUDA, pthread, MPI, Movidius NCSDK, OpenAI, OpenCV, Spring, Docker, Jenetics

## PLATFORMS

AWS, Firebase, Azure, Colab, PlatformIO, RoboFlow, Intel FPGA, Xilinx ZYNQ, Github, JIRA

## ACHIEVEMENTS

### IEEE IAS CMD Robotics Demonstration Contest, Baltimore, Maryland, USA (2019)

Runners-Up by representing SLIIT, Sri Lanka

### FPGA based Intelligent Engine Control Unit (2018)

Best Idea finalist at "Create Intelligence at the Edge" contest by Hackster.io with Xilinx & Avnet

### IEEE Xtreme 10.0 - 24 hours programming competition (2016)

### Vidyawa.com - Best Sinhala Science Blog (2010)

Awarded by Royal College in collaboration with ICTA Sri Lanka & Presidential Secretariat