

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 (2023)

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

Edge Video Analytics (2023)

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

5G Application - Digital Twin (2022)

Demonstrate AI applications using 5G Networks.

Govi Mithuru - AI advisory bot (2022)

A chat bot application based on a LLM that is fine-tuned by localized knowledgebase.

Intelligent Video Content Analyser (2022)

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

KYC Verification API (2021)

Develop a customer KYC verification API based on telco services.

Alternative Content Delivery Services (2023)

Migrate SMS Content services with Whatsapp, RCS and Web Push.

Metaverse-as-a-Service (2022)

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

Vaayu - Air Quality Monitoring System (2020)

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

NB-IoT/Cat-M1 Network Testing (2019)

Test NB-IoT network capabilities with industry use cases.

LECO Smart Metering Platform (2021)

Platform migration and development of on-demand request handling.

Smart City Dashboard (2020)

Develop a geospatial dashboard to monitor city-wide physical parameters.

SOOMS - Hot seat booking app (2020)

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

Incident Reporting app (2020)

Develop a mobile app to report incidents in working environments.

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, Streamlit, LangChain, Gradio

PLATFORMS

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

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