

NIPUN WAAS

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waasnipun

Katunayake, LK

waasnipun.github.io



A passionate persuer showing interest in the fields of Computer Science and Machine Learning. A quick learner with a can-do attitude willing to take up challenges and passionate to dig deep into an area of interest.

EXPERIENCE

Engineering Intern

Dialog Axiata PLC

October 2020 – March 2021 Colombo, LK

- Developed a highly interactive web-based platform for visualizing device connections in signal towers.
- Developed automation tools to enhance efficiency, productivity, and quality of day today activities.
- Involved in designing and building a machine learning models to predict future mobile traffic in cell towers.
- Communicated with senior engineers on a daily basis.

Software Engineer

Hexcodelabs

June 2020 – November 2021 Colombo, LK

- Hexcodelabs is a startup company aiming to develop solutions for client needs such as mobile and web apps, machine learning and IoT projects, etc.
- Involved in planning and managing developers and clients both local and foreign.
- Architected and implemented IOS apps using flutter and deployed them into the AppStore.

PROJECTS

Autonomous crop spraying robot with precision RTK & Vision based navigation - *Final Year Project*

- Developing an autonomous robot which navigates through a user defined path using RTK and deep learning.
- Involved in developing the machine vision system and the robot.
- This project is currently ongoing.

Robotics Deep learning ROS Jetson Nano Python

Familife V2

familifeapp.com

- Developed and deployed an full-stacked IOS mobile app using flutter for a Denmark based startup.
- App is a social media platform for families where family members can find and host different events and tasks within the group.
- Fully developed and maintained by myself.

Flutter Firebase IOS/Android

SKILLS

Programming Languages

Java C++ Python Verilog Dart

Libraries & Frameworks

Spring Flutter Pandas Scikit-learn
Tensorflow

Technologies & Platforms

Git Java Design Patterns Linux
Firebase

Databases

MySQL

LANGUAGES

English
Sinhala



EDUCATION

B.Sc.(Hons) in Electronic and Telecom- munication Engineering

University of Moratuwa

Sept 2017 – Ongoing | CGPA - 3.37

G.C.E. Advanced Level, Combined Mathematics

Maris Stella College, Negombo

2016 | 3 A's | Z-score - 2.1849

COURSES & CERTIFICATES

- Computer Vision Nano Degree
Udacity

- Object Oriented Programming in Java
Coursera

- Parallel, Concurrent, and Distributed Program-
ming in Java Specialization
Coursera

Artific

 github.com/waasnipun/artific

- Algorithmic python pip package implemented purely in python and deployed in pypi.
- Visualizes the steps of arriving at the solution for sorting and searching algorithms.

Python Data structures & Algorithms

Pathfinder

 waasnipun.github.io/path_finder/

- Web app to visualize shortest path finding algorithms.
- Build to help understand and explore the graph algorithms in depth.

Javascript React Data Structures and Algorithms

Image Captioning

 github.com/waasnipun/DL/tree/main/Image-Captioning

- This project is about designing and training a CNN-RNN (Convolutional Neural Network - Recurrent Neural Network) model for automatically generating image captions.
- The network is trained on the Microsoft Common Objects in COntext (MS COCO) dataset.
- Project is done as a part of the Udacity Nanodegree program

Python Pytorch LSTM

Time Series Forecasting: Predicting mobile traffic with LSTM

 github.com/waasnipun/timeseries-mobile_traffic-forecast-LSTM

- Involved in designing and building a machine learning model by using LSTM to predict future mobile traffic in cell towers.
- Model is able to predict 7 days into the future by learning the pattern of the past data.

Python Tensorflow

Maze Solving Micro Mouse Robot

- Developed a micro mouse robot which can map a maze, finding the shortest path to the middle of the maze and going back again in a minimum time.
- Involved in developing the robot and the path finding algorithm.

ACHIEVEMENTS

- Finalist at SLIIT Robofest Competition 2019/21.
- Finalist at Sri Lankan Robotics Challenge Competition 2019.
- All-Island 16th in MoraExtreme 2019 organized by University of Moratuwa.
- All-Island 16th (Global 326th Out of 5015) in IEEEExtreme 13.0 organized by IEEE.
- College Award for the outstanding achievement at G.C.E. A/L examination 2016 – Awarded by Maris Stella College, Negombo.

- Neural Networks and Deep learning
Coursera
-

- Mathematics for Machine Learning: Linear Algebra
Coursera
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SOCIETIES & LEADERSHIP

- President 20/21
Catholic Students' Society, University of Moratuwa.
- Head of PR 20/21
Project SPARK, Electronic Club, University of Moratuwa.
- MarCom Team 18/19
AIESEC in University of Moratuwa.
- President 15/16
Science Union, Maris Stella College, Negombo.
- Treasurer 14/15/16
Media Club, Maris Stella College, Negombo.

REFEREES
