Winarto Wijaya

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Nationality	Indonesian
Working Availability	Jan/Feb
Notice Period	2 Months

LINKS

www.linkedin.com/in/winartowijaya

www.github.com/winartoawi

PROFILE

Master of science in Artificial Intelligence, Bachelor`s degree in Mechatronic engineering.

WORK EXPERIENCE

Feb 2023

Junior Software Engineer at Gelora.id

- Software development, modeling, simulation, testing and quality assurance.
- Perform maintenance and software integrations for existing systems.
- Maintaining web platform with MVC & asp.net C# programming language.

June 2022 – Dec 2022

Software Engineer Intern at Indomets

- Developing Point-Of-Sales system based on Excel.
- Perform transactions record, issuing invoices, and inventory management using Macros and User-form for GUI.

Feb 2019 – May 2019

Medklinn Air Sterilizer company intern under R&D department, Internship

- Working with a cost down prototype project on Air Sterilizer unit.
- Involved in the development and testing of Ozone Water unit.

PROJECT EXPERIENCE AS JUNIOR SOFTWARE ENGINEER AT GELORA.ID

Feb 2023 – Current

Maintaining Web Platform

- Maintaining Web platform using MVC on ASP.NET
- Optimizing query for effective load time on EF Core which links to SQL database

May 2023 – Current

Dashboard Web Platform

- Taking in charge of dashboard (Admin side) for making communities to activity scheduling
- Bug fixing for new developed controller.

July 2023 – Current

Mobile App API

- Involved in making API function calls for mobile app, taking request and sending response needed for mobile app.
- Involved in making API function call for Xendit request invoice JSON.

PROJECT EXPERIENCE IN MASTER OF SCIENCE IN AI

Aug 2021 – Oct 2021

Deep learning Lung Nodule detection and classification, Capstone project

- Faster R-CNN for lung nodule candidate screening and False Positive Reduction using Dual Path Network with Squeeze and Excitation module.
- Utilizes public LUNA 16 Lung Nodule dataset.

Aug 2021 – Oct 2021

Deep learning Stock Market Price Prediction

- Feature extraction using Convolutional Neural Network (CNN) architecture.
- Combines with the Long Short-Term Memory RNN model.
- S&P 500 stock market – AAPL, GOOG, MSFT, AMZN.

Mar 2021 – May 2021

A Spell checker system using Natural Language Processing (NLP)

- Python based program with PYQT Graphical User Interface (GUI).
- NLTK, Unigram, Bigram, edit distance and stupid backoff algorithms.

Oct 2020 – Jan 2021

Credit Risk/Score prediction using machine learning models

- Predicting Credit Risk using SVM, Random Forest, Ensemble method.
- Regularization with hyperparameter tuning using grid and random search.
- Performed the models on R-Studio.

PROJECT EXPERIENCE IN B.ENG IN MECHATRONIC

Sept 2019 – Mar 2020

Short-ranged communication device for motorcyclist Capstone project

- Communication platform using VoIP (Linphone), Linphone SIP server.
- Provide IoT service dashboard on geo-location and rider`s status.
- Hand-free interface using speech recognition with miniature wind powered turbine.

Jul 2018 – Jan 2019

Aquaponic Smart farming system with IoT

- Integrated IoT (IBM-Bluemix) LAN network using Node-red server via Raspberry Pi.
- Sensors and actuators connect to the main microcontroller Photon Particle and Arduino.
- Sensors: Light Dependent Resistor, pH sensor, Humidity sensor.
- Actuators: LED strip light, 12v relay switch, mini fan, LCD display, and 5v dc motor.

Mar 2018 – Apr 2018

Participant, Robocon Malaysia competition (UNITEN)

- In charge of designing robot framework with the integration of pneumatic system.

EDUCATION

Oct 2020 – Oct 2021 — Master of Science in Artificial Intelligence, Asia Pacific University — Kuala Lumpur

Apr 2016 – Jul 2020 — Bachelor degree in Mechatronics Eng., Asia Pacific University

Oct 2014 – Dec 2015 — Canadian Pre-U (Ontario grade 12) Taylor`s College

SKILLS	Machine Learning Algorithms	Computer vision/image processing
	Data Modelling	Data Visualization
	SolidWorks modeling	
PROGRAMMING	Python	R-Studio
	C++	VBA
	CSS/HTML/JS	Node.js
	SQL	C#
RECENT PROGRAMMING		
	ASP.NET Core	PostgreSQL
	Model-View-Controller & OOP Concepts	C#
	LINQ	REST API
TOOLS	AWS SERVICE (Sagemaker)	SPSS
	Visio	MATLAB
	EagleCAD	Visual Studio
AI/DS TECHNIQUE & LIBRARY	PyTorch/TensorFlow/Keras	Basic ML tech: LR, ANN, SVM
	DL Architecture: CNN, RNN, LSTM	Obj Detection: Faster R-CNN
	NLP: NLTK, Unigram, Bigram, edit distance	Scikit-Learn, Pandas, Numpy, Matplotlib
LANGUAGE PROFICIENCY	Bahasa Indonesia	Native
	English	Fluent
	Bahasa Malaysia	Fluent
	Mandarin	Verbally