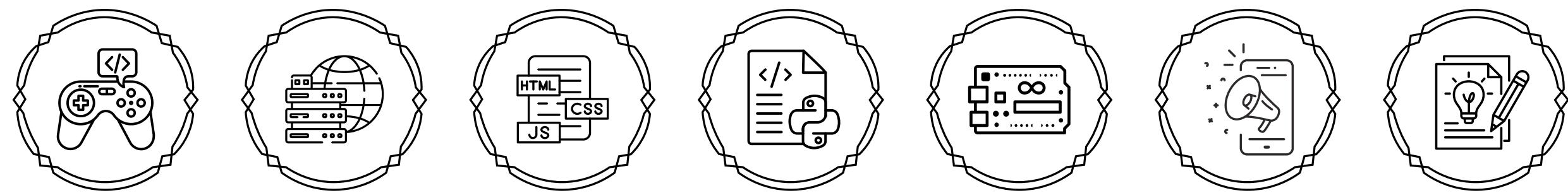




# Jibran Wafi Prawiko



I'm a determined individual who will bring an out of the box ideation into realisation. Across 6 years, I have experienced working on several game development, web development, data science, and embedded system projects. Additionally, I also find a lot of joy in writing fiction.



# Education

2019–2023

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Graduated from  
International University Liaison Indonesia

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Bachelor degree  
in Computer Science

**GPA**  
3.22

# Certifications



## Holiday Program

John Robert Powers

September 2017 – January 2018

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## Static Web Programming with XHTML

Bina Nusantara

9 November 2021 – 15 November 2021

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## Full Stack Developer

Bina Nusantara

January 2024 – March 2024

---

## School of Public Speaking

Merry Riana Learning Center

June 2024 – November 2024

# Work Experience Highlights



## PT Technova Optima Prima

March 2021 – June 2021

**Position:**

Software  
Engineer  
Intern

- Designed the UI for a boarding house booking application on mobile using Figma.
- Developed a custom admin's login page using the react.js frontend web framework.

## PT Telekomunikasi Seluler

October 2021 – December 2021

**Position:**

Software  
Developer  
Intern

Created an alternative telegram bot to be compared and analyzed against the version currently utilized at the office in PT Telkomsel.

## PT Lumbung Artha Kita

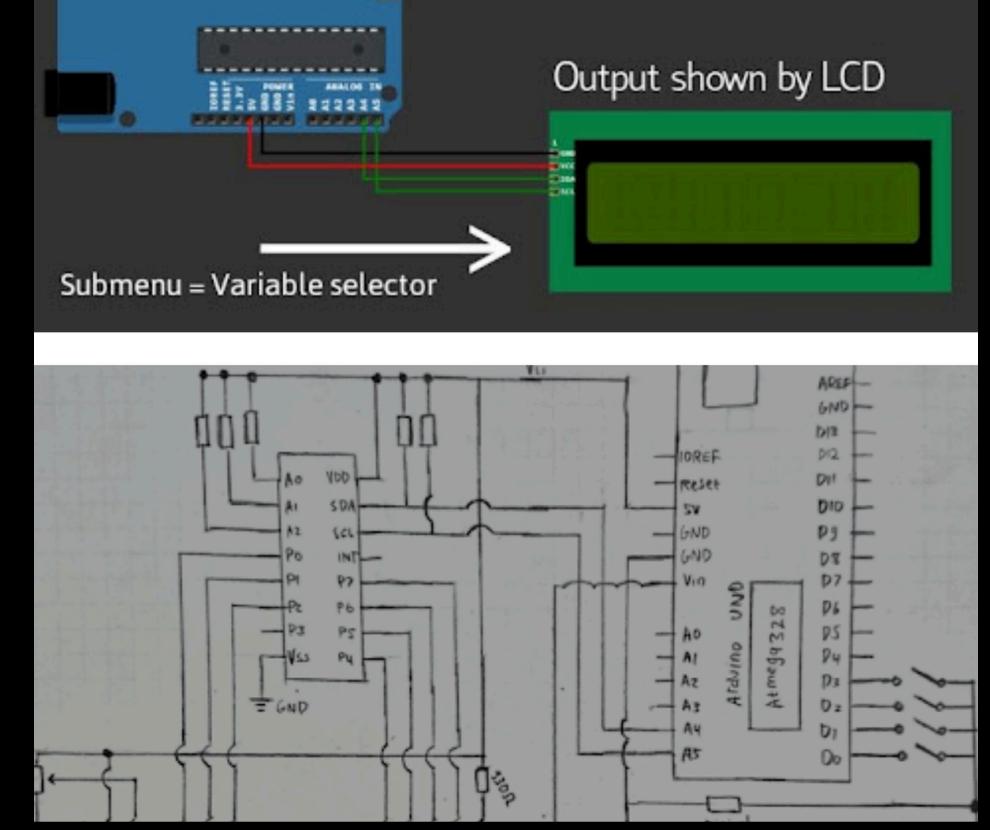
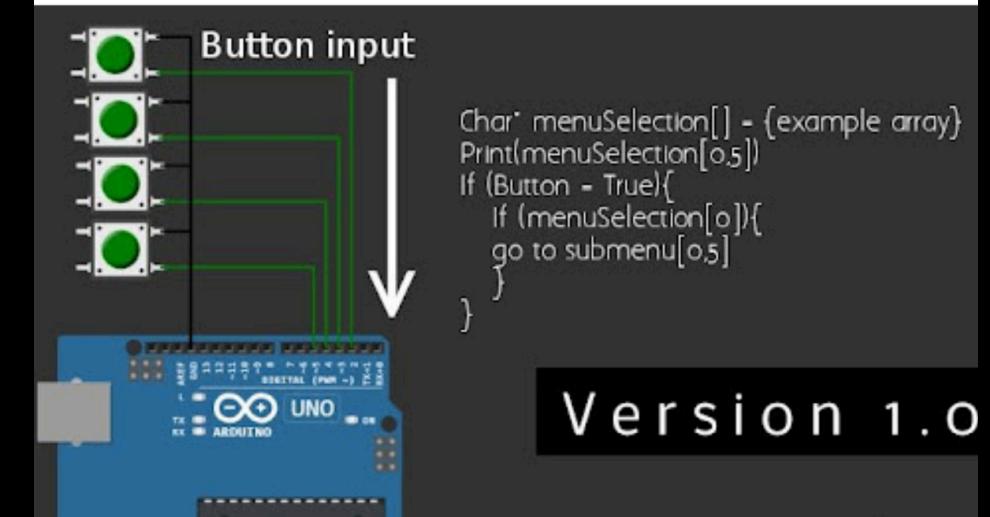
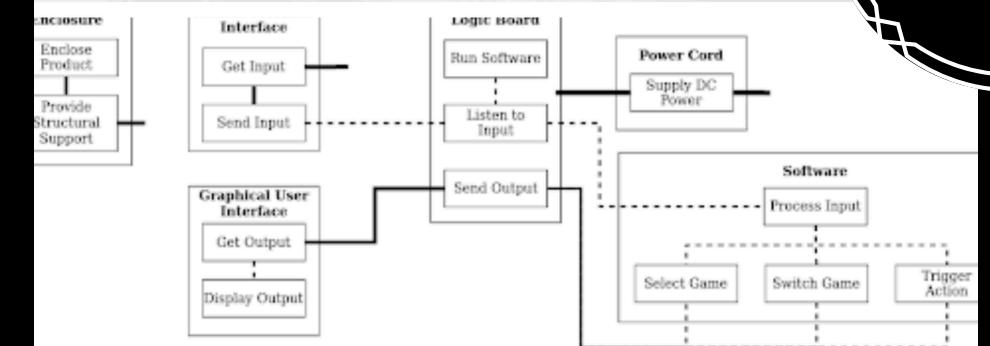
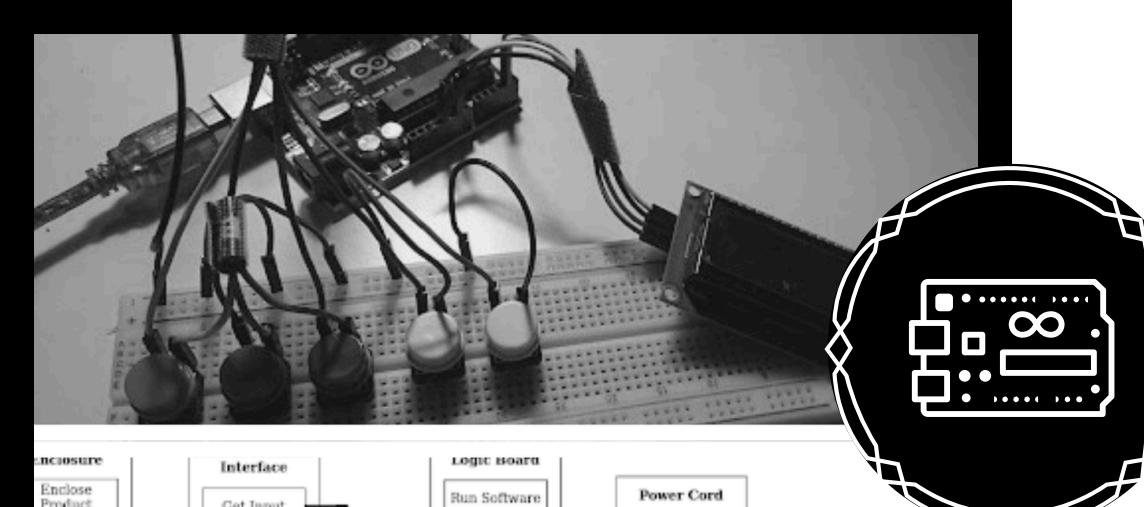
July 2024 – April 2025

**Position:** Senior Software Engineer

- Designed and developed the webpage for healthkita.com, a healthcare agency service which focuses on bringing Indonesian citizens to Malaysia for medical checkup and stem cell treatment.
- Designed and developed the webpage for lubkita.id, a website showcasing the highlights for the company's main service.
- Designed and developed the webpage for lunogi.com, an affiliate website which promotes some of the most popular products from Amazon.
- Provided marketing support by designing instagram feed posts and video editing using Canva.

# Project Showcase

## Arduino-based board game companion



### Project Type

Embedded Systems

### Association

International University  
Liaison Indonesia

### Description

This is a board game companion device that replaces a human player in real life. It was a random number generator which displayed the virtual opponent's next movements from an LCD display connected into an Arduino UNO board.

## Project Showcase

# Neural-network-based House Pricing Prediction Tool

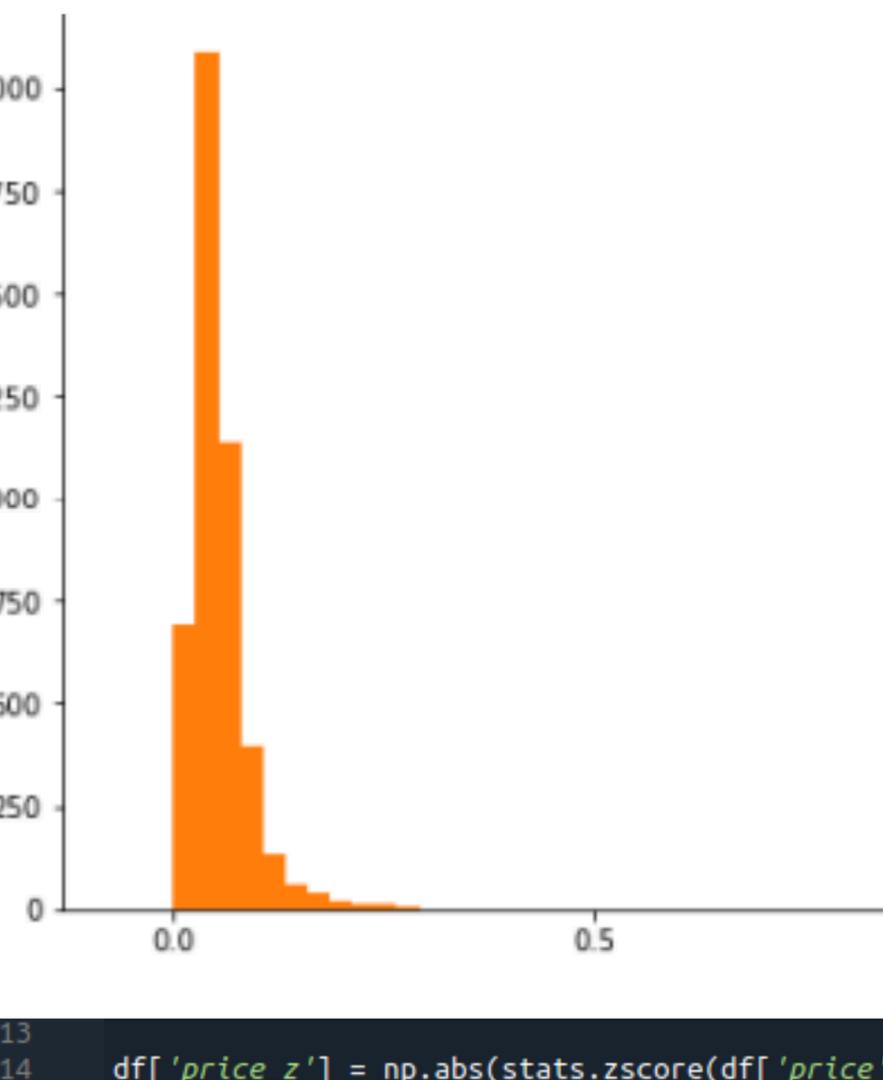
```

2 import pandas as pd
3 import matplotlib.pyplot as plt
4 from matplotlib import rcParams
5 from scipy import stats
6 from sklearn.compose import make_column_transformer
7 from sklearn.preprocessing import MinMaxScaler, OneHotEncoder
8 from sklearn.model_selection import train_test_split
9
10
11 import tensorflow as tf
12 from tensorflow.keras import Sequential
13 from tensorflow.keras.layers import Dense
14
15 df = pd.read_csv('/home/joystick157725/Downloads/housing.csv')
16 print("INITIAL DATA:")
17 print("")
18 print(df.head())
19 print("")
20 print("")
```

DATA AFTER MODIFICATION:

	price	bedrooms	bathrooms
0	313000.0	3	1.50
1	2384000.0	5	2.50
2	342000.0	3	2.00
3	420000.0	3	2.25
4	550000.0	4	2.50

[rows x 16 columns]



## Project Type

Data Science

## Association

International University  
Liaison Indonesia

## Description

The first aim of this project is to filter an initial csv file of house prices before implementing any training or testing data. The second one is plotting the data frame based on its pricing mean, this will provide an understanding of the prediction model. The project uses linear regression as the base neural network method to build this project, which is offered in the Tensorflow library.

## Comparing TLCS with classic TL

I. In high-density condition with a different light cycle

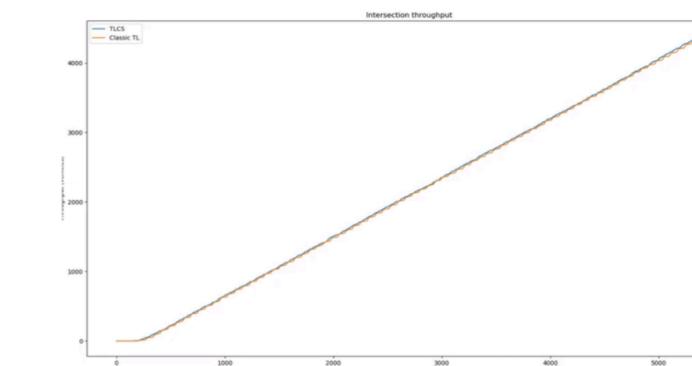
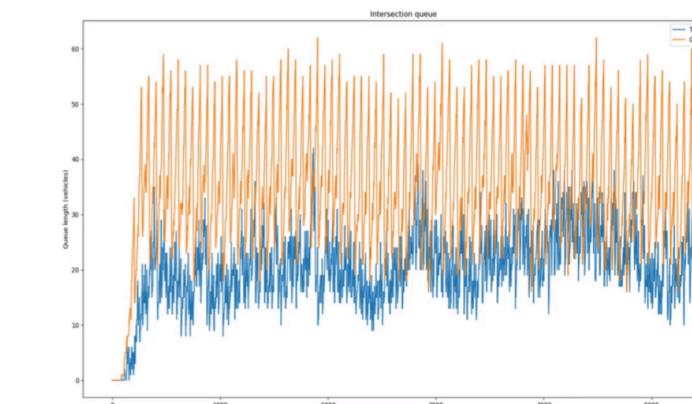


Figure 5: intersection throughput (orange: Classic TL, Blue: TLCS)

## D. Results

## TLCS

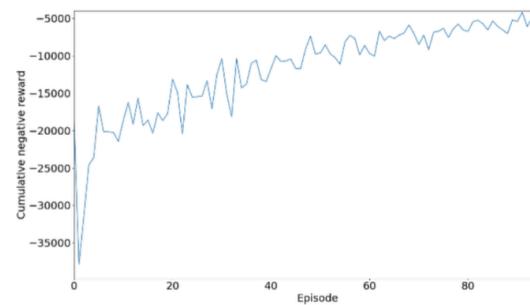


Figure 1: rewards vs episode(steps)

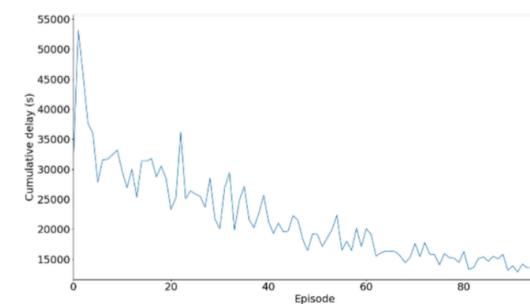


Figure 2: Average cumulative delay vs episode(steps)

## Project Showcase

# Machine Learning Implementation in Traffic Controls

## Project Type

Data Science

## Association

International University  
Liaison Indonesia

## Description

This project aims to find out the effectiveness of using the Deep Q-Learning method for traffic management around intersections. The sources are mainly secondary, taken from existing research papers and patents found in Google Scholar, while the utilized tools include a sample Deep Q-learning python script, where the parameters are modified to support the corresponding traffic demonstration.

# Project Showcase

# Raspberry Pi Temperature Telegram Bot

```

1. Install python on raspberry pi
2. Install pyTelegramBotAPI
(https://pypi.org/project/pyTelegramBotAPI/)
3. Regist on botFather (@BotFather)
4. Create Telegram BOT On Raspberry (send message)

PyPI
pyTelegramBotAPI
Python Telegram bot api.

def beep(chat_id) -> None:
    """Send the beep message."""
    bot.send_message(chat_id, text='Beep!')

@bot.message_handler(commands=['set'])
def set_timer(message):
    schedule.every(5).seconds.do(beep, message.chat.id).tag(message.chat.id)

@bot.message_handler(commands=['unset'])
def unset_timer(message):
    schedule.clear(message.chat.id)

if __name__ == '__main__':
    threading.Thread(target=bot.infinity_polling, name='bot_infinity_polling', daemon=True).start()
    schedule.run_pending()

```

Jibran Wafi  
/start  
Hi! Use /set <seconds> to set a timer 16:48  
Beep! 16:49  
Beep! 16:50  
Beep! 16:51

```

import time, schedule, telebot
from telebot import TeleBot

API_TOKEN = '5711792855:AAFuv97PKzIBLUAJjNxxCnD1wRTn739S3P0'
bot = TeleBot(API_TOKEN)

@bot.message_handler(commands=['help', 'start'])
def send_welcome(message):
    bot.reply_to(message, "Hi! Use /set <seconds> to set a timer")

def beep(chat_id) -> None:
    """Send the beep message."""
    bot.send_message(chat_id, text='Beep!')

@bot.message_handler(commands=['set'])
def set_timer(message):
    args = message.text.split()
    if len(args) > 1 and args[1].isdigit():
        sec = int(args[1])
        schedule.every(sec).seconds.do(beep, message.chat.id).tag(message.chat.id)
    else:
        bot.reply_to(message, 'Usage: /set <seconds>')

@bot.message_handler(commands=['unset'])
def unset_timer(message):
    schedule.clear(message.chat.id)

if __name__ == '__main__':
    threading.Thread(target=bot.infinity_polling, name='bot_infinity_polling', daemon=True).start()
    schedule.run_pending()

```

## Project Type

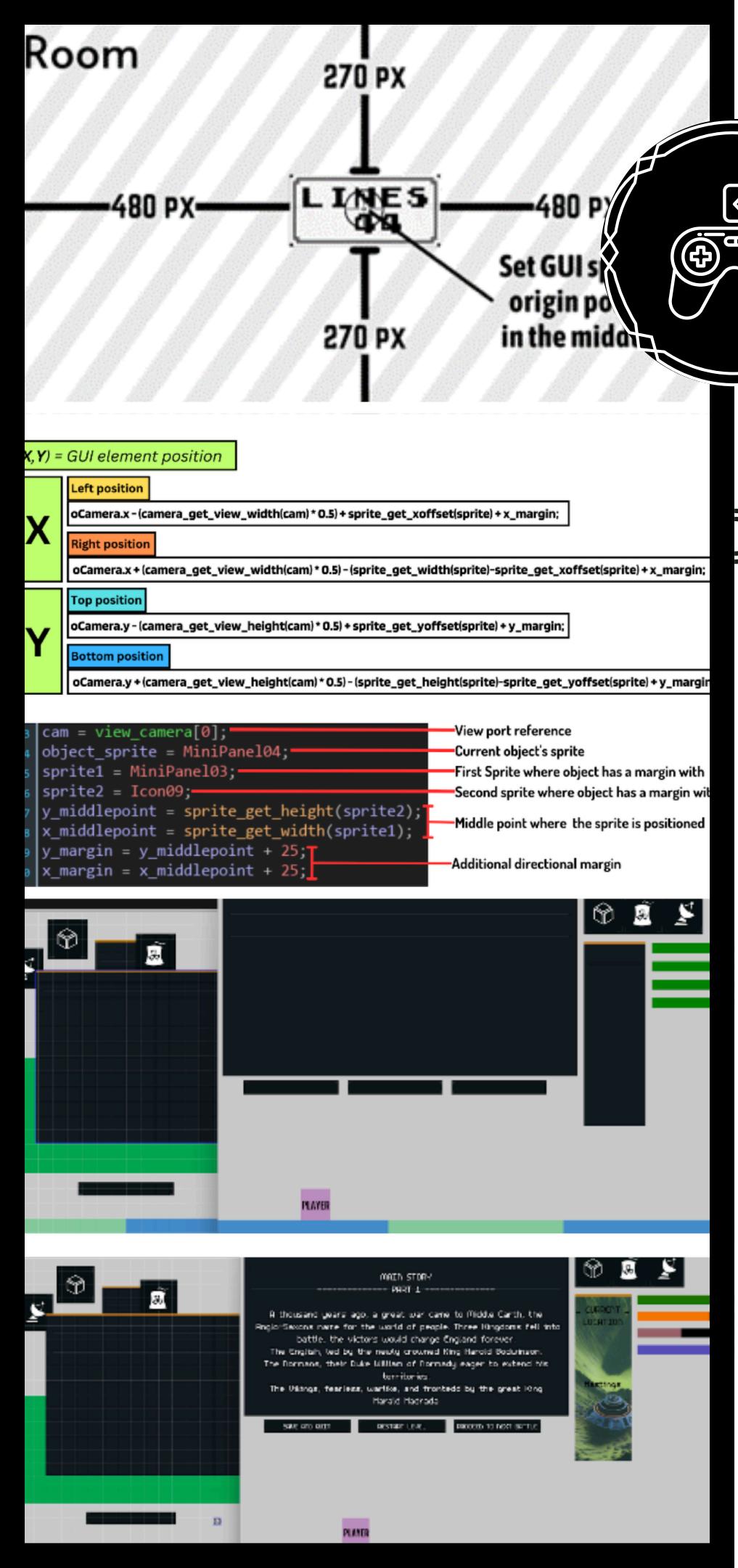
Data Science &  
Embedded Systems

## Association

PT Telekomunikasi Seluler

## Description

This is a small project of creating a telegram bot using a different script and algorithm than the one currently used, in hopes that IT department employees could use the code as a reference whenever there are future developments of adding new features. Since this project leaned more towards research, any problems encountered during the assignment will not greatly impact Telkomsel's IT department.



# Project Showcase

## Simplifying The Algorithm Behind Creating UI Elements

### Project Type

Game Development

### Association

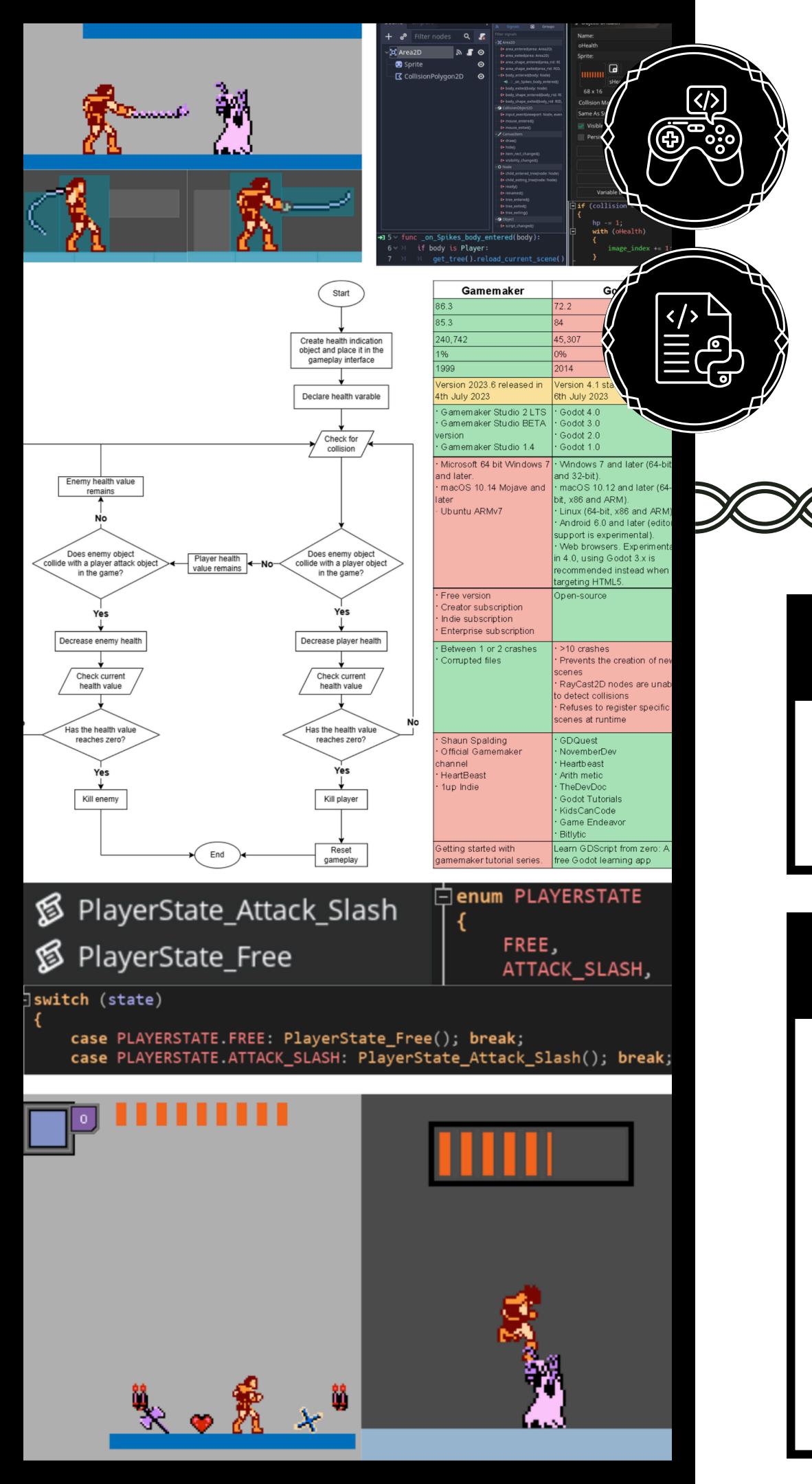
International University  
Liaison Indonesia

### Description

This project aims to create an algorithm for developing any GUI elements in a video game, this project uses the gamemaker engine for its demonstration. Furthermore, the algorithm should not break or affect other game mechanics to the point of being unable to progress through the developmental process when following a certain tutorial.

# Project Showcase

# Comparison Analysis of Different Game Engines



## Project Type

Data Science &  
Game Development

## Association

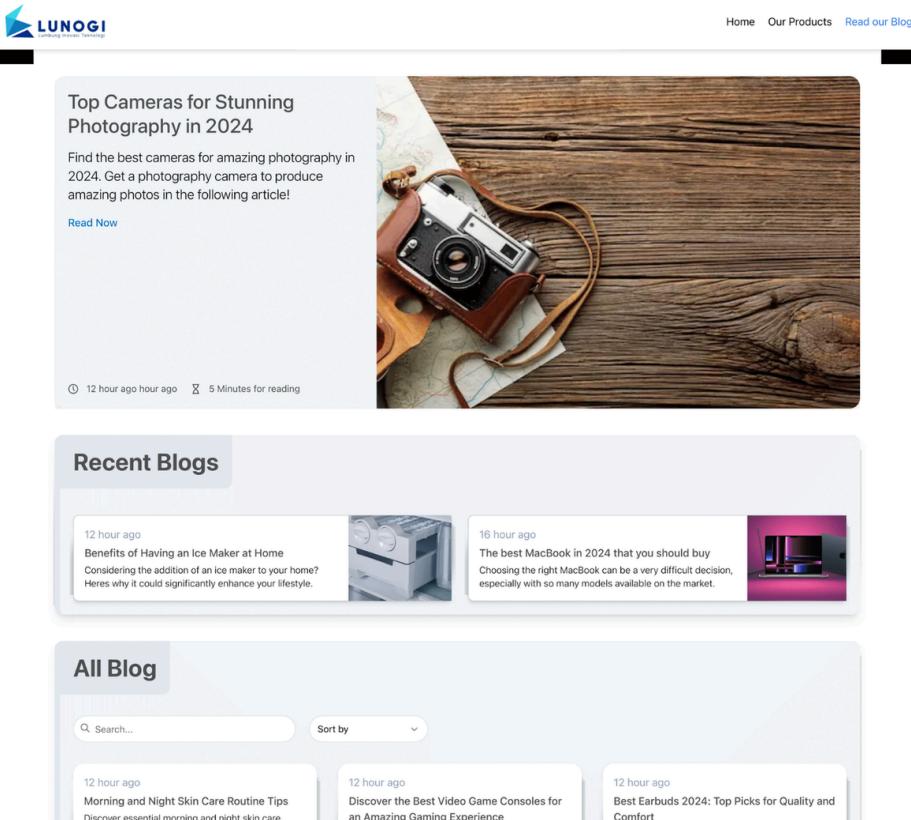
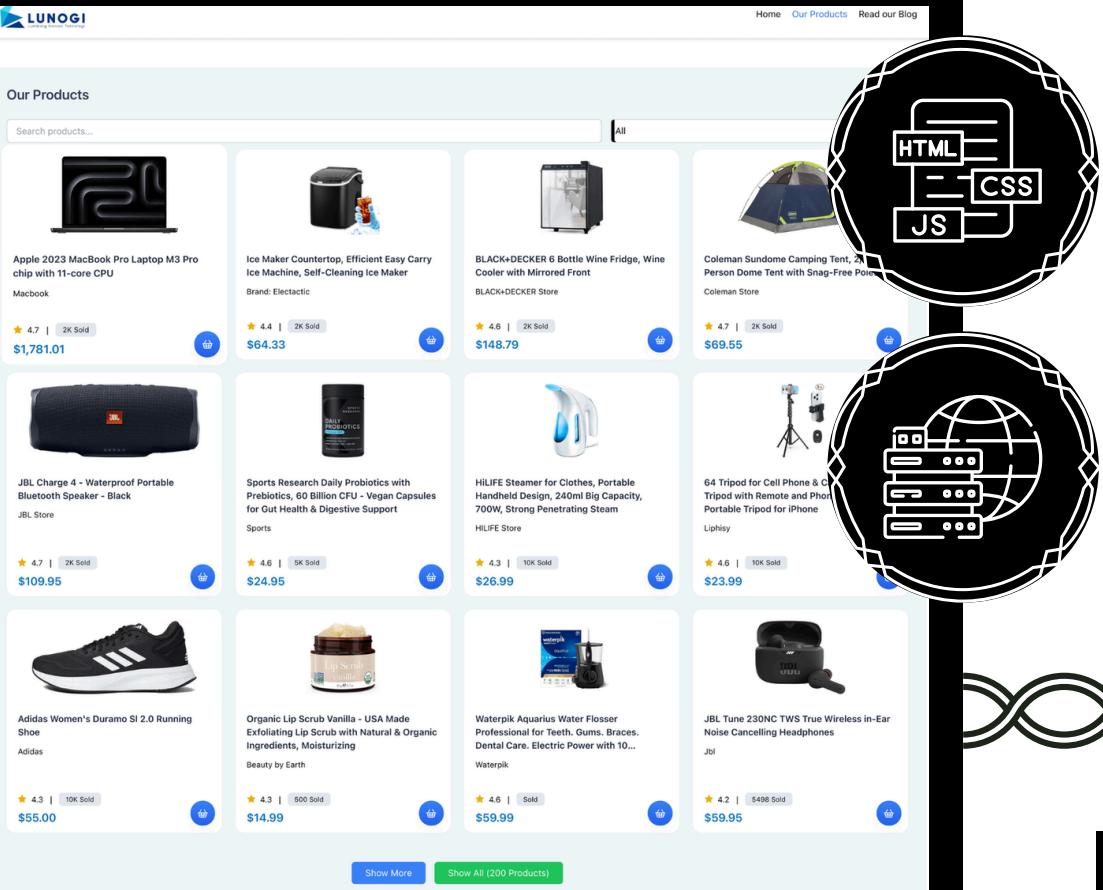
International University  
Liaison Indonesia

## Description

This is a thesis project that aims on identifying what makes one game engine has a more complex learning curve than the other. The study was conducted within the period of three months, which centered on porting the same game using two different engines, including Godot 4 and GameMaker Studio 2. The results and key findings include finding the suitable categories to which beginner game developers can use to consider which game engine they are learning first.

# Project Showcase

# Lunogi.com Website



## Project Type

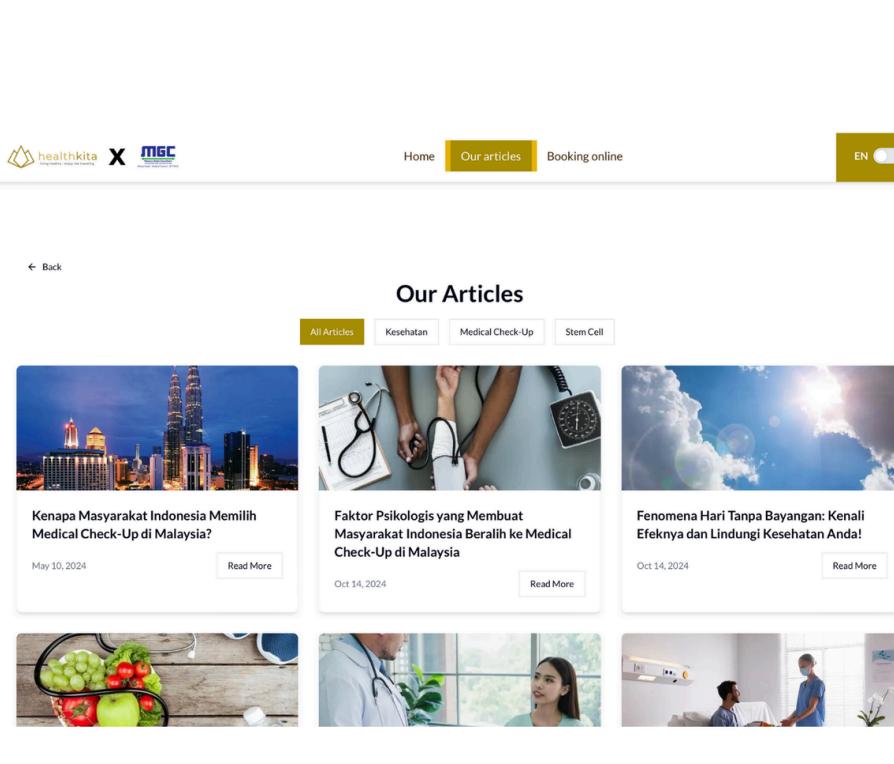
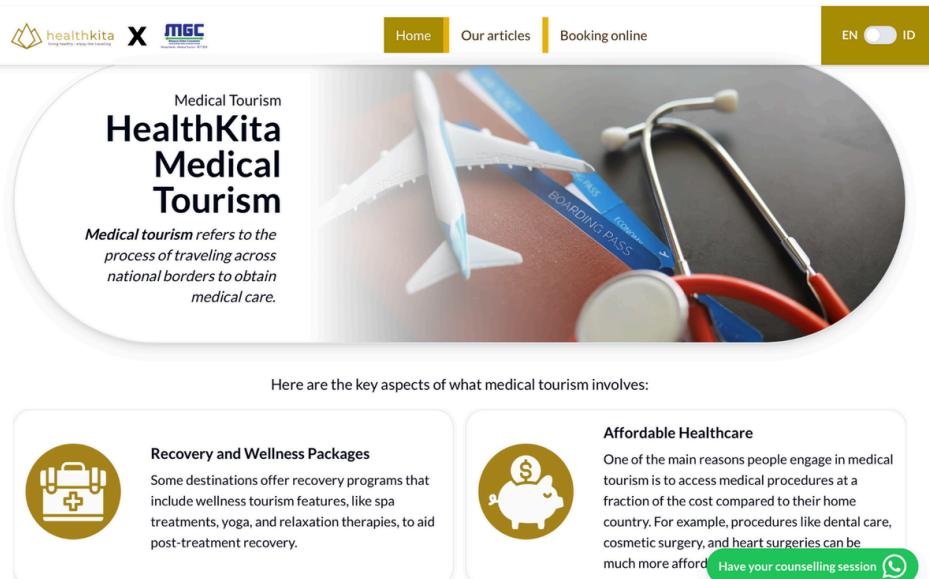
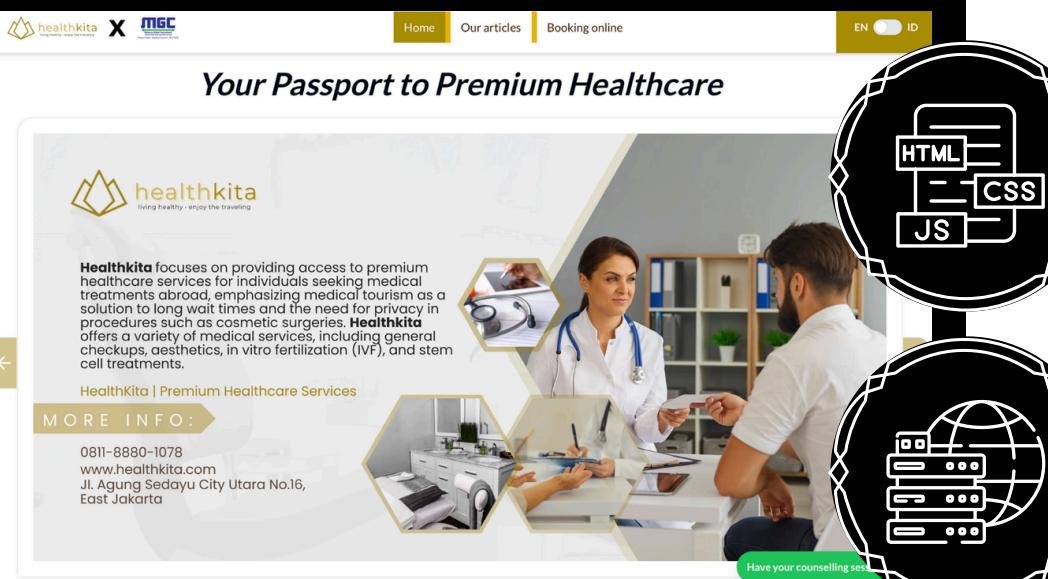
Frontend & Backend  
Web Development

## Association

PT Lumbung Artha Kita

## Description

Lunogi.com is an affiliate website which promotes some of the most popular products from Amazon. It uses next.js as the framework uses a server-side rendering technique to improve the site's Search Engine Optimization. This site contains a product page, and an article page that showcases the functions of the products offered within the product page.



# Project Showcase

# Healthkita.com Website

## Project Type

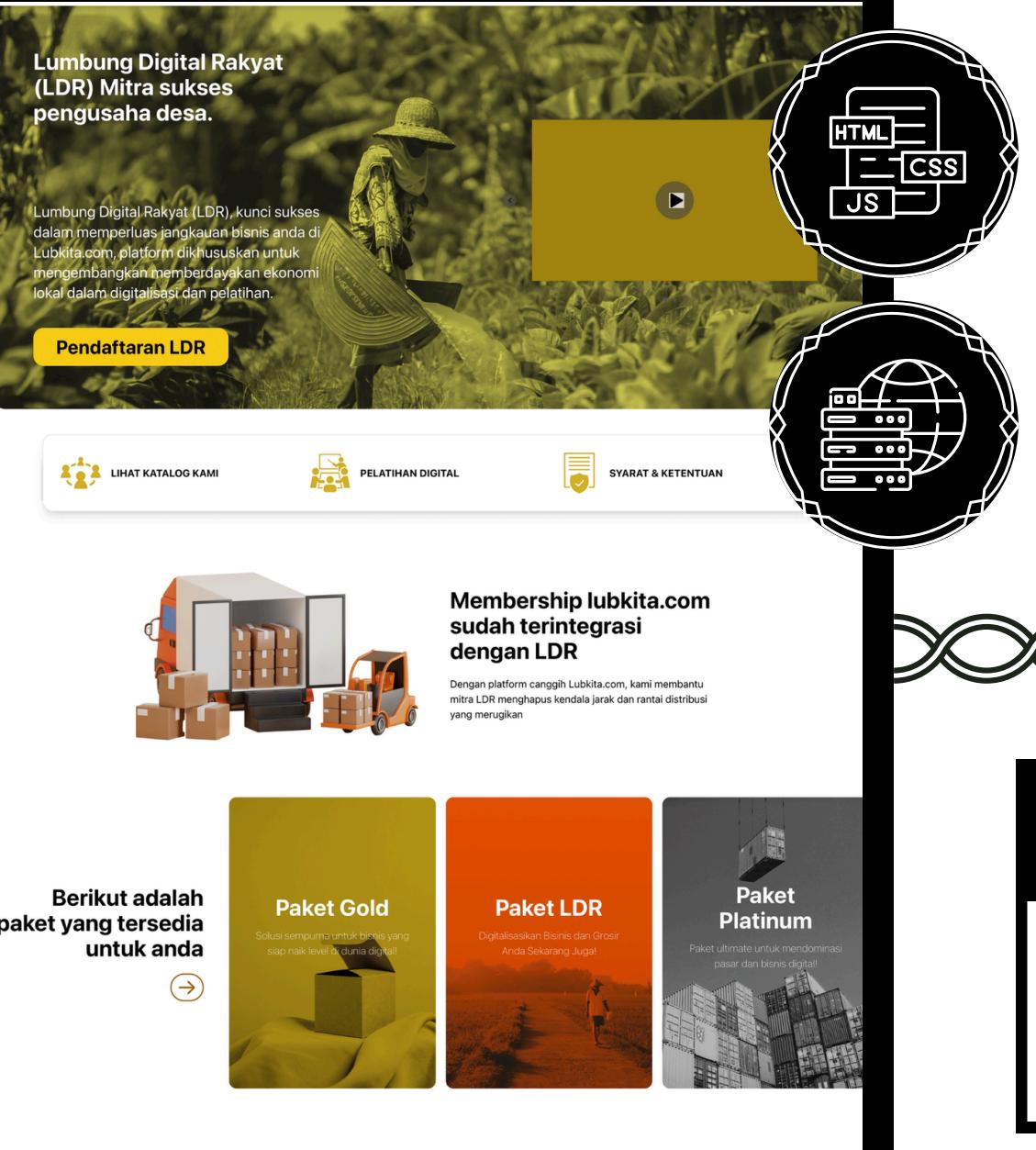
Frontend & Backend  
Web Development

## Association

PT Lumbung Artha Kita

## Description

Healthkita.com is a healthcare agency service which focuses on bringing Indonesian citizens to Malaysia for medical checkup and stem cell treatment. Patients can open the site to sign up for a free online consultation with an agent to make an appointment for either a medical checkup or a stem cell treatment. Similar to Lunogi.com, Healthkita.com uses next.js for its framework, and also features its own article page with its own health-related topics.



# Project Showcase

# Lubkita.id Website

## Project Type

Frontend & Backend  
Web Development

## Association

PT Lumbung Artha Kita

## Description

Lubkita.id is a registration website showcasing the highlights for the company's main service. The main service in particular is offering a registration form for an E-Commerce package is called "LDR", which provides rural material manufacturers and product sellers an access to the latest technologies to boost their product sale across indonesia. The Project uses the Svelte framework with Typescript as it does not require an SEO functionality.

# Project Showcase Healthkita Instagram



## Project Type

Digital Marketing

## Association

PT Lumbung Artha Kita

## Description

This is a side project within the company which gets constantly given and assigned, to create and design daily instagram feedposts that can emit a strong selling point of healthkita's medical checkup and stem cell treatment services. The graphic design is based on a set of branding rules to emit a consistent presentation.

## Chapter 8: Not So Eggscellent

Dear Sprig,  
Tomorrow, we're holding the egg festival in the town.  
If you'd like to attend, the invitation starts at 9AM.  
You wouldn't want to miss the annual egg hunt, would you?  
-Mayor Lewis.

"What do you mean I can't help the festival's preparations while presenting the letter he received yesterday. Facing Mayor Lewis.

"I'm sorry, Sprig, but we already have it under control. The last time everyone organized a festival altogether, it went completely out of control. Management mayhem, oh lord the chaos, the people's disappointment... his gaze turned blank, his mouth slowly gaped itself open. It appeared he just kicked in, hearing the past loud screams, gunfires, and explosions of the aforementioned fiasco, trapped inside his mind... forever... and ever. He can't let you in. Go home, wait until 9AM, and you can finally join the festival like everyone else. Besides, I've already assigned your role for another festival in autumn."

The one time Sprig offered his community service, the Town would have been better off without him. Here the Mayor stood before the town's entrance, behind him was a large wooden barrier, blockading the farmer's access into the main square, which was the event's preparation progress. Well, at least Lewis had come to facts, of each festival having their own selected coordinators. A roadblock unfortunately laid beyond Sprig's capabilities, he could only request, as passing the time became his only option now.

Hence, Sprig dragged away his deflated headspace, commencing his walk home. To say he over-equipped himself for the seasonal event, was an understatement. The farmer anticipated the egg festival so much that he believed his dandelion and daffodil foraging could prepare him for the egg hunt competition. Caroline's words were still echoing in his head. The crop field currently hosted every flower she had recommended, with her husband's speed-gro fertilizer implementation, and Sprig's quest had been lowered into a mere sentry duty; keeping those flowers safe from rodents, diseases, and spreading weeds. He had left, the anticipation of seeing his first all-floral harvest under the roof, as he could imagine the colorful landscape painted by the flower collections standing across his own front door.

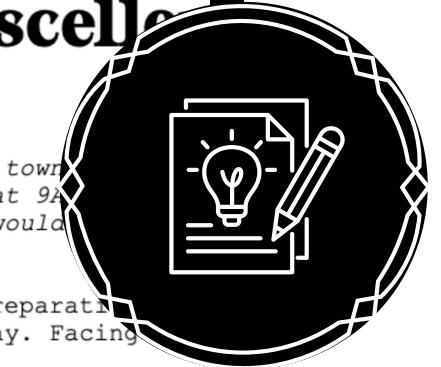
"Man, that fence and scarecrow sure held up quite well," Sprig said, admiring his newly built farming utilities. He couldn't have done it without his wife's advice.

Though, a single comment couldn't possibly solve his persistent problem. Sprig's necessary chores were finished, the scarecrow was already doing its job, and every flower had been polished. Time currently struck at 7AM, he questioned what choices he had once he entered the house. Whatever it might be, he set his alarm to make it absolutely sure he wouldn't miss the festival hours.

"Anything good on TV?" Sprig sat himself on the couch. Facing the television, he observed the latest Stardew Valley programs.

CLICK

"Welcome to KOZU 5... your number one source for weather, news, and entertainment. And now, the weather forecast for tomorrow... it's going to be a sunny day!"



## Project Showcase

# The Weird and Wacky World of Stardew Valley Novel

### Project Type

English Literature

### Association

Personal association

### Description

A personal project of a literature hobby, the project adapts a story based on the popular 2016 game from ConcernedApe, Stardew Valley. This coming of age story is currently available on Wattpad for free. It is a project that explores a personal interest in creative writing, with a custom cover I designed myself.

# Contact Me

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**Linkedin ID**

Jibranwafi