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EDUCATION

Core Programme
42 Malaysia - Sunway
Education Group
2022 - 2023

Mechanical Engineering
Universiti Sains Malaysia
2016 - 2020

SKILL & EXPERTISE

C | C++ | HTML | CSS |
Javascript | Git | Linux |
Python | React | Arduino |
MATLAB | VS Code | Flutter
| MySQL | HTTP Methods

LANGUAGE

Chinese

English

Malay

LOW ZI XIAN

42KL Cadet | Mechanical Engineer

Experience

Aug 2022 - Present42 Malaysia - Sunway Education Group

Core Programme

Competency in Computer Science Level 5 out of 9 (Core Programme)

• Feb 2022 - Jul 2022 Solmax Bioenergy Solution Sdn. Bhd

Asistant Engineer

- 1. Manage and supervise on-site job schedules to ensure timely completion of tasks.
- 2. Prepare and report accurate and comprehensive daily and monthly reports.
- 3. Assist with store management, including inventory control, ordering supplies, and organising materials.
- 4. Provide on-site supervision assistance, collaborating with the site manager on different states, Johor, Perak, Selangor, Sabah, Sarawak HDPE/LLDPE water tank installation.
- Jul 2019 Sep 2019

Forest City - Country Garden Pacificview

Engineering Internship

- 1. Building checking and quality assurance
- 2.Assist in monitoring on-site rectification quality and construction progress
- 3. Assist in site safety, civilization, and implementation of construction
- 4. Collating inspection data and data management within the group

Projects

O Personal Website

Link: zixianlow.github.io

Calculator App

- Simple calculator app using React Link: zixianlow.github.io/CalculatorApp

Orocery list App

- Grocery shopping list, allow user to add, check and delete to item from list Link : zixianlow.github.io/Grocery-List

O so_long

- A 2D game featuring keys collection while avoiding getting caught by the enemies.

o cub3D

- 3D game inspired by "Wolfenstein 3D." Single player first person shooting game recreation.

Skyscrapper solver

- A solver to the puzzle game Skyscrapper to meet the visibility and uniqueness rule. Give an effective solution(under a minute) up to 7x7 puzzle and could technically can solve any NxN Skyscrapper puzzle if there is no time constraint.

Philosophers

- A classic concurrency problem known as the Dining Philosophers problem.
- Mutex and semaphores, Multi-threaded program and concurrency management

Minishell

- A minimalistic command-line interface, similar to a Unix shell for command execution.
- Supporting input and output redirection, as well as implementing the ability to pipe the output of one command into the input of another.
- Implementing signal handling for interrupt signals (e.g., Ctrl+C) and termination signals.

O Webserv

- A functional web server from scratch which handle different HTTP requests and responses.
- Supports HTTP requests such as GET, POST, PUT, DELETE, HEAD

O Push swap

- A challenges create an efficient algorithm for sorting stack of numbers using a limited operations.
- Understanding on different sorting algorithm such as Quick, Insertion, Bubble,
- Advantages and disadvantages of different sorting algorithm

O NetPractice

- A 10 level challenge to understand about networking including IP/TCP, subnet masking.
- Understanding on IP for host and network, subnet mask, switch and router, network availability for client and host

Event Participation

o ImpactHack 2023 (June 2023)

 Prediction model based on sales records, Data visualisation on storage, sales, and profits, Restocking plan suggestion

Peer-Defense Hackathon (Oct 2023)

 A tool to view detailed information of cadets based on their blackhole days using data extracted from 42 API

Wildcard Hackathon (Oct 2023)

• A webpage design with a theme of human life to annoy user with the worst UI/UX