



LOW ZI XIAN

42KL Cadet | Mechanical Engineer

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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 |
PHP

LANGUAGE

Chinese

English

Malay

Experience

○ Aug 2022 – Present
42 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
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

Certification

○ AWS Cloud Practitioner

Projects

○ Personal Website

Link : zixianlow.github.io

○ Calculator App

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

○ Grocery list App

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

○ so_long

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

○ cub3D

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

○ Skyscraper solver

- A solver to the puzzle game Skyscraper to meet the visibility and uniqueness rule. Give an effective solution (under a minute) up to 7x7 puzzle and could technically solve any NxN Skyscraper 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.

○ Webserv

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

○ Push swap

- A challenge to create an efficient algorithm for sorting a stack of numbers using a limited number of operations.
- Understanding of different sorting algorithms such as Quick, Insertion, Bubble, Radix
- Advantages and disadvantages of different sorting algorithms

○ NetPractice

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

Event Participation

○ 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