

# Lee Kai Yi Zachary

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Portfolio Website: <https://zachyboiii.github.io/zac-portfolio/>

## WORK EXPERIENCES

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### New Creation Church

Mar 23 – Jul 23

#### Program Assistant

- Online program and webinar director
- Event planning using Microsoft PowerPoint & Excel
- Logistics management

## EDUCATION

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### Singapore University of Technology and Design (SUTD)

Sep 23 – Present

- Bachelor of Engineering (Computer Science and Design)
- GPA 4.5/5.0, SUTD Global Distinguished Scholarship Holder
- Expected date of graduation: August 2027

### Yonsei University

June 24 – Aug 24

- Yonsei International Summer School
- Achieved letter grade 'A' in Introduction to Psychology and Basic Korean Language I

## PROJECTS

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### [KebunFresh | SUTD x PCU Hackathon](#)

Nov 24 – Dec 24

- Designed a website to address the problem statement - How might we simplify the process for locals in Surabaya to locate and purchase fresh crops by connecting them with the best farms for them through a convenient and user-friendly app?
- Created a machine learning model to provide users with recommendations based on user activity
- Made using streamlit, machine learning implemented using pyspark and pandas
- Collaborated with local Surabaya students to better understand and cater to local needs

### [Portfolio Website | Personal Project](#)

Dec 24 – Dec 24

- Created a website to showcase my projects, my flair for design and to allow potential employers to get to know me better
- Made using React.js and styled using CSS

### Singapore University of Technology and Design | 10.020 Data Driven World

Nov 24 – Dec 24

- Applied machine learning concepts like linear regression using python (pandas, numpy) to train a model that solves the problem statement – How might we utilize projected climate conditions for different countries over the next 10 years to predict optimal crop choices, ensuring alignment with future climates and promoting food supply stability?
- Created a flask webapp that allows users to interact with the trained ML model and thereby make a prediction.

### Singapore University of Technology and Design | 03.007 Design Thinking and Innovation

Jan 24 – Apr 24

- Designed an RFID Tag game using Arduino
- Made use of double diamond approach to implement and address the problem statement – How might we transform Changi Business Park's garden from an underutilized area to an exciting community space designed to encourage social interactions between users?
- Voted favorite project and featured in DTI project showcase

### Singapore University of Technology and Design | 10.014 Computational Thinking for Design

Nov 23 – Dec 23

#### [Mini Arcade \(Python\)](#)

- Designed a terminal based mini arcade that contained 4 mini games
- Made use of Object Oriented Programming to create the games through turtle module in Python

## CO-CURRICULAR ACTIVITIES

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### Volleyball Club

Sep 23 – Jan 25

#### Secretary

- Represented Singapore University of Technology and Design in the Singapore University Games both in 2023 and 2024
- Collaborated with other clubs such as SUTD Tchoukball Club to organize inter-club camps to expose members from both clubs to new experiences
- Responsibilities included managing club attendance, logistics and administrative matters
- Organized and managed club booth at school events such as Open House, Night Fiesta and Fifth row showcase

### SUTD Freshman Orientation

May 24 – Sep 24

#### Orientation Group Leader Head

- Responsibilities included event planning and people management
- Leadership, teamwork and public speaking
- Mentored and integrated incoming SUTD Freshmen students

## ADDITIONAL SKILLS

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- Hard Skills: Python, Streamlit, Figma, HTML, CSS, JavaScript, React.js, Flask, Rhino
- Soft Skills: Teamwork, Leadership, Design Thinking, Event planning, Critical thinking, Time management