

# Yu Liang Kwa

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## PERSONAL PROFILE

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Being adventurous, risk taking, and self-driven, I have extensive international experiences through studying abroad and participating in multiple overseas programs. As someone who enjoys working in teams, I took part in many projects and leadership roles to improve my collaboration skills.

## EDUCATION

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

Sep 21 to Present

- Bachelor of Engineering (Engineering Systems Design)
- GPA 4.25/5.0, SUTD Global Distinguished Scholarship Holder
- Date of graduation: Apr 2025

### University of California, Berkeley

Jul 22 to Aug 22

- Global Leadership Program – Fully sponsored program awarded to only 40 students of the cohort
- Game Theory for Social Sciences (A-), Introduction to Econometrics (B+)

## ACADEMIC/PERSONAL PROJECTS

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### Property Forecasting Model, Industry Project

Jan 23 to Apr 23

- Collaborated with a property consultancy company: The Right Move, to develop a model to predict future property prices of condominiums in District 15
- Consulted industry experts from The Right Move to determine quality inputs to the model, then wrote a script to web scrape and compile the information
- Manipulated the inputs to avoid the unit roots problem, then looped through 16383 combinations of equations to extract the best linear regression model, resulting in adjusted  $r^2$  values of up to 0.70, with improvements of up to 0.65

### SGX Screener App, Personal Project

May 21 to Present

- Extracted relevant financial information from SGX of close to 700 stocks through web scraping
- Analysed the financial information extracted from SGX using Python to apply discounted cash flow valuation to estimate the fair value of various stocks
- Designed the workflow and user interface of the app to display the potential of different SGX stocks for investment purposes

### Crop Yield Prediction, Software Developer, Analyst

Oct 22 to Dec 22

- Developed a multiple linear regression model to predict crop yield in the United States using environmental indicators
- Investigated the social impacts of implementing our prediction model, to ensure accountability
- Designed an interactive website for users to perform their own prediction, and view historical trends of environmental indicators

### Flexi-Q, Design Engineer

Jan 21 to Mar 21

- Designed an aesthetic solution to improve the queueing experience of around 100 DBS office workers in the indoor atrium of DBS Asia Hub

- Built a physical prototype to demonstrate the ergonomics and practicality of the product
- Created a wireless charger to improve convenience of phone charging while utilising Flexi-Q
- Performed a life-cycle analysis to evaluate the environmental impacts of Flexi-Q

## WORK EXPERIENCE

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### **Covid Surveillance Unit, Combat Medic**

**Oct 19 to Sep 21**

- Provided medical support for 12000 foreign workers infected with Covid-19 in Expo Hall during the peak of the pandemic in May 2021, and was awarded the Special Covid-19 Recognition Award (MINDEF) for my contributions

### **Circles Life, Promoter**

**Aug 19 to Sep 19**

- Distributed around 1500 SIM cards as part of Circle Life's marketing campaign, and had the most SIM card activations in the month of August 2019

## CO-CURRICULAR ACTIVITIES

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### **SUTD Boxing Club, Treasurer**

**Jan 23 to Jan 24**

- Host group training sessions for around 10 members twice a week
- In charge of club financing and purchasing, set up a collaboration with Onyx MMA to get a boxing coach to come down to SUTD once a week

### **SUTD FACT MUxUGM Program**

**Jan 23**

- Collaborated with 2 UGM students in a team of 4 to create a mathematical model to address mobility, energy, and environmental issues in Indonesia

### **SUTD House Guardian, Senior Member**

**Sep 22 to Aug 23**

- Contributed to building a vibrant hostel community by organising floor and block events reaching sizes of 200 participants, while ensuring the safety and wellbeing of the 30 residents on my floor

### **SUTD Boxing Club, President**

**Jan 22 to Jan 23**

- Host group training sessions for around 10 members twice a week
- Arranged a partnership with Legends Fight Sports in preparation for NUS Exhibition Fight 2023, leading SUTD Boxing Club fight team to 2 golds and 1 silver
- Attained a gold medal at NUS Exhibition Fight 2023 in front of an audience of around 50 people

### **Student Council, Vice-President**

**Aug 18 to Jul 19**

- Organised and executed many student-led events such as prom, raising a total of SGD \$25000 within a year for the event, which attracted 60 Sec 4 and JC 2 graduating students due to promoting it through unique and unconventional skits and publicity stunts
- Represented and stood up for the student body by facilitating and preparing them to raise their concerns coherently during Townhall, managing to convince the school to upgrade the lockers and improve maintenance of the swimming pool

## ADDITIONAL INFORMATION

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- Languages: Proficient in English, Chinese, basic Thai
- Programming languages: Python, R, SQL, HTML, CSS, Julia
- Hobbies: Boxing, Muay Thai, Gymming
- Public speaking: Ex-debate CCA member, experience in multiple forward-facing leadership roles
- Others: Piano ABRSM Grade 8 (July 2017), Swimsafer Gold (December 2010)