



# Teh Yi Chang

## Fresh computer science graduate

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## EDUCATION

### Monash University Malaysia, Subang Jaya - Bachelor of Computer Science

FEB 2018 - DEC 2020

- Recipient of Monash High Achiever's Award for 6 consecutive semesters
- Past Project: Detection of Lung Nodules using Image Processing Techniques
- Final Year Project: Identification of Depression using Gait Analysis from video
- GPA: 3.667

### Monash University Malaysia, Subang Jaya - Bachelor of Science (Medicinal Chemistry)

FEB 2017 - NOV 2017

- Recipient of Monash High Achiever's Award for entry
- Volunteered as an undergraduate research project assistant - "Synthesis of Zinc Oxide Nanoparticles"

### KDU College Penang - GCE Cambridge A-Level

JAN 2015 - AUG 2016

- 4A\*s (Mathematics, Physics, Chemistry, Biology)
- Volunteered in a student council fundraising event.

### SMJK Chung Ling Butterworth - Sijil Pelajaran Malaysia (SPM)

JAN 2010 - DEC 2014

- Scored 10 A's in Sijil Pelajaran Malaysia (SPM)

## SKILLS & KEY COMPETENCIES

- Algorithms and Data Structure (**Python**)
- Data Modelling and Data Analytics (**R**)
- Object Oriented Design and Implementation (**Java**)
- Functional Programming (**JavaScript, TypeScript**)
- Big Data Processing (**MongoDB, Apache Spark and Kafka**)
- Databases (**Oracle SQL**)
- Image Processing (**MATLAB**)
- Mobile Apps Development (**Android**)

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- Parallel Computing (**POSIX and MPI in C**)
  - Software Quality and Testing (**Git, Continuous Integration**)

## WORKING EXPERIENCE

### **Jabil Global Business Services, Penang** - *IT Intern*

DEC 2019 - FEB 2020

- Worked on a Proof-of-Concept project involving NFC ePaper to solve warehousing problems.
- Perform dataset annotation and tagging for motion recognition project using the 20bn-jester dataset.
- Troubleshoot and debugging on problems for NVIDIA Jetson Nano

## EXTRACURRICULAR & VOLUNTEERING ACTIVITIES

### **AIESEC in Sunway** - *National Marketing Executive for Outgoing Global Talent*

FEB 2020 - PRESENT

- Editor and content creator for AIESEC in [Malaysia Global Talent Facebook Page](#).
- Data analysis for marketing strategies such as ads, content posts, newsletter and events.

### **AIESEC in Sunway** - *Project Manager in Incoming Global Volunteer*

MAR 2019 - AUG 2019

- Managed “Speak Up” - a project aligned with SDG 4 in reducing education inequality among Malaysian students.
- Organized workshop activities for 2 local high schools and coordinated with 15 foreign volunteers on lesson plan preparation, execution and project impact measurement.

### **Monash Engineering & IT Leadership Program (EILP)** - *Committee*

MAY 2019 - NOV 2019

- Responsible for marketing a one-day talk on management skills organized by EILP with the team

### **JunctionX Singapore 2019 Hackathon** - *Participant in a Group of 5*

27 SEP 2019 - 29 SEP 2019

- Participated in the Shopee track for “The Future of E-commerce”
- Created a minimum viable product on auto-classification of products using YOLO with TensorFlow and selling trends to improve operational efficiency and understanding of market demand for sellers.

### **Monash Debate Club** - *Member*

JUL 2017 - NOV 2017

- Joined a novice debate competition in Asia Pacific University (APU).

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## RECOGNITION & AWARDS

- Top Mark Commendation by Monash's Faculty of Information Technology for highest grade for Image Processing (2019 Semester 2 cohort).
- Monash High Achiever's Award for 6 consecutive semesters

## UNIVERSITY PROJECTS

### **Detection of Lung Nodules using Image Processing Techniques on CT Images.**

- Using MATLAB, publicly available CT scan images are analysed using image processing techniques such as median filtering, Otsu thresholding and watershed segmentation.
- **Conclusion:** Successfully developed the MATLAB program which tags lung nodules and their relevant stages of cancer.

### **Identification of Depression by Gait Analysis using Image Processing Techniques.**

- Project manager in a team of 3 final year students.
- Planned development activities based on software development lifecycle (Waterfall) model.
- Development is done fully using Python3 and Tensorflow.
- Performed usability testing for the final result.
- Successfully implemented the UI using Python's PyQt5 and integrated the UI with the prediction model.

## PERSONAL PROJECTS

### **Reminder Telegram Bot**

- A simple telegram bot developed using Python and hosted on Heroku which reminds the user a message on a specific time.

### **KLSE Stock Price Notification System (Ongoing)**

- A Python script that notifies the user when any stock of the portfolio is trending up or down (percentage change over time).
- Used BeautifulSoup for web scraping of KLSE Screener for stock price updates.
- Used Twilio SMS API to send text message notifications to the user.