

# Tung Yan Zuo, Darren

Computer Science Student  
Grassroots Leader

Profile Website



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## ABOUT

I'm a highly motivated and technically skilled computer science student known for my competitive drive and leadership experience. With a passion for technology, I thrive in challenging environments, collaborating effectively within teams and delivering top-notch results. Active in community service, I bring a holistic perspective to my work, aiming to leverage technology for both innovation and societal betterment.

## EDUCATION

<b>National University of Singapore</b> B.Comp (Hons) in Computer Science	Aug 2023 – Present
<b>Ngee Ann Polytechnic</b> Diploma in Engineering Science • Graduating GPA: 3.9266	Apr 2018 – May 2021
<b>West Spring Secondary School</b> Cambridge 'O' Level Certificate (Net L1R4): 8 points	Jan 2013 – Dec 2017

## WORK EXPERIENCE

<b>MINDEF</b> National Service Administrative & Training Specialist @ BMTC SCH V • Work on Admin & Training matters for SCH V Recruits & Permstaff • Work on Telegram Bot and Microsoft Excel VBA for automation	Oct 2021 – Aug 2023
<b>Defence Science and Technology Agency</b> Internship • Worked on an AI chatbot including Rasa Open Source • Worked on a project on Harbor, Docker and MLOps	Mar 2021 – Jun 2021

## CERTIFICATES AND AWARDS

<b>People's Association Certificate of Appreciation</b> For 5 years of dedicated voluntary service to the community	Aug 2023
<b>ALTI Exemplary Instructional Leader (Innovation) Award</b> Attained due to my tech contributions to my company during National Service	Nov 2022
<b>WILEY Certified Data Analyst</b>	Apr 2022
<b>Edusave Good Progress Award</b>	Dec 2020
<b>DSTA Polytechnic Engineering Scholarship</b>	Feb 2020
<b>Director's List</b> Director's List for Polytechnic Year 2 Semester 1	Jan 2020
<b>Director's List</b> Director's List for Polytechnic Year 1 Semester 2	Jun 2019
<b>Best Presentation Award 2nd Runner-up</b> Participated in the National Robotics Competition (NRC) in 2018	Sep 2018

## SKILLS

### Software:

- |              |                                       |                        |
|--------------|---------------------------------------|------------------------|
| • C          | • Google App Scripts                  | • R                    |
| • C++        | • Unity (2D Game Design)              | • Microsoft Excel      |
| • C#         | • Blender (Video Editing)             | • 3D Printing & Design |
| • JavaScript | • Microsoft Visual Basic Applications | • Java                 |
| • Python     |                                       |                        |

**Languages:** English (written and spoken), Mandarin (written and spoken)

## **PROJECTS**

### **Parade State Project | BMTC SCH V**

Self-Initialised Project in National Service

Feb 2022 – Present

- Created 1 Microsoft Excel macro project using **Microsoft VBA**
- Created 2 Telegram Bots using **Google App Script** | @BMTC\_Athena\_Bot & @Athena\_MC\_Bot

### **Lego Brick Detection | NP Module Assignment**

A 1-month long project to detect and count different types of Lego bricks

Dec 2020 – Jan 2021

- Used **OpenCV** to detect the different type of lego bricks

### **Conversion of a RC Car for Autonomous Security Surveillance | NP FYP**

Polytechnic Final Year Project

Mar 2020 – Aug 2020

- Changed the framework of the code to support **WebRTC** using **NodeJS** to improve connection latency significantly
- Improved communication & movement capabilities using **Arduino**, **Tinkercad**, **ROS** & servo motors

### **Health Optimisation in Chronic Disorder Management | NP R&D**

A Research & Development Project which is the Course's prerequisite to FYP

Oct 2019 – Feb 2020

- Used the analysis of medical disorders and study of gamification to ideate a medical app which greatly increases the habit of adherence
- Used **Adobe XD** & **Unity Game Engine** to design and create the app

## **CO-CURRICULAR ACTIVITIES AND COMMUNITY SERVICE**

### **National University of Singapore**

StartIT

Aug 2023 – Present

Member (Project Management)

- Project Director for BitHacks 2024

### **Ngee Ann Polytechnic**

The Sandbox Advocates

Apr 2018 – May 2021

Sub-Committee Member

- Organise internal events, such as CCA outings and Start-Up Stories (Business Talks)

NP Toastmasters

Apr 2018 – May 2021

Member

- Participate in giving speeches weekly
- Joined the club's speech competition
- Organize bonding events

### **Zhenghua Community Club Youth Network**

Oct 2016 – Present

Assistant Treasurer (Grassroots Leader)

- Organise community events
  - Second-in-charge for Children's Camp 2019
  - Organising Committee for Garden By the Bay Outing 2019
  - Organising Committee for Yappy Hour 2018
    - ❖ Established national record for 'Largest Gathering Of Dogs Wearing Bandanas'
  - Organising Committee for Heritage Trails@Madame Tussauds 2018

## **REFEREES**

### **1. Mr. Koh Fook Leong**

Advisor, School of Engineering, Ngee Ann Polytechnic

Tel: +65 9627 5975

### **2. Mr. Gene Kwok**

Ex-Chairman, Zhenghua Community Club Youth Network

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