

# Tung Yan Zuo, Darren

Year 2 Computer Science Student @ NUS  
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

### **National University of Singapore**

Bachelor of Computing (Hons) in Computer Science

Aug 2023 – Present

- Expected Graduation: July 2026

### **Ngee Ann Polytechnic**

Diploma in Engineering Science

Apr 2018 – May 2021

- Graduating GPA: 3.9266 / 4.0

## WORK EXPERIENCE

### **MINDEF**

*Administrative & Training Specialist (National Service)*

May 2024 – July 2024

Oct 2021 – Aug 2023

- Managed administrative & training matters for recruits & staff
- Built Telegram Bots and Microsoft Excel VBA for automation purposes

### **Defence Science & Technology Agency**

Mar 2021 – Jun 2021

*Software Engineering Intern*

- Collaborated on an AI Chatbot, using **Rasa Open Source**, and MLOps project, using **Docker** and **Harbor**

## CERTIFICATES AND AWARDS

### **People's Association Certificate of Appreciation**

Aug 2023

*For 5 years of dedicated voluntary service to the community*

### **ALTI Exemplary Instructional Leader (Innovation) Award**

Nov 2022

*Attained due to my tech contributions to my company during National Service*

### **WILEY Certified Data Analyst**

Apr 2022

### **Edusave Good Progress Award**

Dec 2020

### **DSTA Polytechnic Engineering Scholarship**

Feb 2020

### **Director's List**

Jan 2020

*Director's List for Polytechnic Year 2 Semester 1*

### **Director's List**

Jun 2019

*Director's List for Polytechnic Year 1 Semester 2*

## SKILLS

**Programming Languages:** C, C++, C#, Python, JavaScript, HTML, Java

**Software:** Unity, Google App Scripts, Microsoft Visual Basic Applications (VBA), R Studios, Git, Harbor,

**APIs & Other Tech Stacks:** Rasa Open Source, OpenCV, NodeJS, WebRTC, ReactJS

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

## PROJECTS

### **Health Screening 2024 | Public Health Service (PHS)**

May 2024 – Present

*Self-Sourced Project - Lead Software Developer*

- Update the website to its latest requirement with **ReactJS & MongoDB**
- Led a team of 4 developers and streamline its development using **Agile & GitHub**
- Impacted more than 250 users

### **CP2106 Independent Software Development Project (Orbital)**

May 2024 – Present

*Summer Module*

- Created a web-based calendar system using **ReactJS & Firebase API**
- Encompassed Telegram Bot Integration using **Telegraf.js**

### **Parade State Project | Singapore Armed Forces, BMTC School V**

Feb 2022 – Present

*Self-Initialised Project during National Service*

- Created projects to increase work efficiency
- Developed 1 Microsoft Excel marco project using **Microsoft VBA**
- Published 2 Telegram Bots leveraging **Google App Script**

### **Lego Brick Detection | Ngee Ann Polytechnic**

Dec 2020 – Jan 2021

*Module Project*

- Detects and counts different types of Lego bricks
- Utilized **OpenCV** and fundamentals of Computer Vision

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

Mar 2020 – Aug 2020

*Polytechnic Final Year Project*

- 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**

Oct 2019 – Feb 2020

*Research & Development Project*

- 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

### **StartIT @ National University of Singapore**

Aug 2023 – Present

Member (Project Management)

- Project Director for BitHacks 2024

### **Zhenghua Youth Network**

Oct 2016 – Present

Assistant Treasurer (Grassroots Leader)

- Volunteer for community events
- 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'

## REFEREES

### **1. Dr Law Bee Khuan**

Course Chair, Diploma in Engineering Science

Tel: +65 6460 7324

### **2. Mr. Arunraj s/o Chidambaram**

Chairman, Zhenghua Youth Network

Tel: +65 9386 6150