

Tung Yan Zuo, Darren

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EDUCATION

National University of Singapore | Singapore, SG

- **Bachelor of Computing in Computer Science (Honours)** Aug 2023 - July 2026
- **Relevant Courses:** Introduction to AI and Machine Learning (**Python**), Data Structures & Algorithms (**Java**)

Ngee Ann Polytechnic | Singapore, SG

- **Diploma in Engineering Science | GPA: 3.9266/4.0** Apr 2018 - May 2021
- **Relevant Courses:** Data Structures & Algorithms (**C++**), Fundamentals of Obj-oriented Programming (**C#**)
- **Awards:** DSTA Polytechnic Engineering Scholarship, Director's List (Year 2 Sem 1), Director's List (Year 1 Sem 2)

TECHNICAL SKILLS

- **Programming Languages:** C, C++, C#, Python, JavaScript, HTML, Java, R
- **Software:** Unity, Google App Scripts, Microsoft Visual Basic Applications (VBA), R Studios, Git, Docker
- **APIs & Other Tech Stacks:** Rasa Open Source, OpenCV, NodeJS, WebRTC, ReactJS, MongoDB, Firebase

PROFESSIONAL EXPERIENCE

Software Engineering Intern | Backbone Pte. Ltd. | Singapore, SG

Sep 2024 - Present

- Handles automation of client's financial statements conversion into rules using **Python & MySQL**
- Streamlines the export of rules to **Microsoft Azure** and merges with the main software to handle customisation

Administrative & Training Specialist | MINDEF | Singapore, SG

Oct 2021 - Aug 2023

- Managed administrative & training matters for recruits & staff members
- Built Telegram Bots & Microsoft Excel VBA for automation purposes
- **Awards:** ALTI Exemplary Instructional Leader (Innovation) Award

Software Engineering Intern | Defence Science & Technology Agency | Singapore, SG

Mar 2021 - Jun 2021

- Collaborated on an AI Chatbot using **Rasa Open Source & Python**
- Played a role in advancing an MLOps project that employs **Docker & Harbor**

PROJECTS

Health Screening 2024 | Self-Sourced Project | Public Health Service (PHS)

May 2024 - Aug 2024

- Impacted more than **1000** volunteers & participants who underwent a health screening by PHS
- Developed & updated web-based queue system & data storage to its latest requirement with **JavaScript, ReactJS & MongoDB**
- Led a team of 4 developers & streamlined its development using **Agile & Git**
- Responsible for effectively communicating with the PHS committee & delegating tasks to the team

UniFyTime | Independent Software Development Project (Orbital - Advance)

May 2024 - Aug 2024

- Worked in pairs to propose & develop a web-based calendar system using **JavaScript, ReactJS & Firebase API**
- Designed user interface (**UI**) for optimum user experience (**UX**), structuring information architecture for intuitive navigation aligning with modern designs & best practices, real-time synchronisation with **Firebase & Firestore**
- Coordinated effective communication within the team through daily developmental sprints using **Agile & Git**
- Encompassed Telegram Bot Integration using **JavaScript & Telegraf.js**

Parade State Project | Self-Initialised Project during National Service

Feb 2022 - Jan 2024

- Developed 1 Microsoft Excel Marco project to facilitate attendance taking & emailing using **Microsoft VBA**
- Published 2 Telegram Bots coded in **Google App Script** to facilitate attendance taking & Medical Leaves tracking
- Improved work efficiency tremendously & **saved 80% of the time**

LEADERSHIP EXPERIENCE

Assistant Treasurer (Grassroots Leader) | Zhenghua Community Club Youth Network

Oct 2016 - Present

- Organised numerous community events that reached out to over 300 residents in the Zhenghua community
- Volunteered in various community events, such as a weekly food rescue event
- **Awards:** People's Association Certificate of Appreciation (5 Years Long Service Award)

CERTIFICATION

WILEY Certified Data Analyst

April 2022