

# Tan Rongwen, Daren

Tel: +65 9113 2860 | Email: [daren28@gmail.com](mailto:daren28@gmail.com)

LinkedIn: [linkedin.com/in/darentanrw](https://www.linkedin.com/in/darentanrw) | GitHub: [github.com/darentanrw](https://github.com/darentanrw)

## EDUCATION

### Hwa Chong Institution - GCE 'A' Levels, Integrated Programme (IP)

2016 – 2021

- Achieved 5 Distinctions for H2 Physics, H2 Computing, H2 Mathematics, H2 Economics, H1 General Paper, H1 Project Work
- Awarded Hwa Chong All-Round Excellence Award (16 recipients / 1042 cohort size)
- Recipient of Edusave Character Award (ECHA) in 2021, EAGLES Award in 2020, 2019 and 2018

## WORK EXPERIENCE

### Defence Science Technology Agency

Feb 2022 – Mar 2022

#### Cyber AI Software Engineer Intern

- Researched feasibility of using Open Source Intelligence for early warning detection of cyber threats
- Implemented Cyber Threat Intelligence system data collection via web scraping of Open Source Twitter and Telegram data
- Analysed scraped data via Natural Language Processing (NLP) by conducting Sentiment Analysis with the roBERTa model

### Singapore Armed Forces

Mar 2022 – Present

#### Officer Cadet, Officer Cadet School

- Selected as top 10% of recruits to undergo a 38-week long Officer Cadet Course
- Initiated custom development of e-attendance platform in Django, PostgreSQL on Amazon Web Services (AWS) Elastic Beanstalk that led to an efficiency increase of administrative tasks up to 50%
- Conducting beta testing of e-attendance platform for school-wide implementation of up to 700 users

## PROJECTS / LEADERSHIP ACTIVITIES

### 25<sup>th</sup> Student Leaders Convention [\[Event Website\]](#)

Hwa Chong Institution, Jan 2019 – June 2019

#### Assistant Organising Secretary

- Planned and executed a 4-day international convention where 350 student leaders from 8 countries across the globe came together to discuss pertinent social issues in our present world and communities
- Oversaw communication and liaison with overseas schools, delegates and teachers
- Coordinated overall action plan for 69 Organising Team members and Facilitators
- Developed a [custom website](#) with HTML5 to facilitate consolidation of all learning pointers and discussion
- Previously was Organising Team Member of 24<sup>th</sup> and 23<sup>rd</sup> SLC in Concepts Committee

### Global Digital Young Leaders Convention [\[Event Website\]](#)

Hwa Chong Institution, Apr 2020 – Jul 2020

#### IT Committee Member

- Executed an event that was featured in [2018 OECD PISA Global Competence Assessment](#) for its innovative online interactive gameplay where student leaders collaborated to solve crisis
- Achieved the Ministry Of Education Innergy Gold Award in 2021 for the presented summary of event
- Programmed Custom Game Platform used by over 100 Student Delegates across 7 different countries using React, Slack API, DynamoDB deployed on AWS
- Storyboarded comprehensive crisis storyline for delegates

### Athena Faculty Committee

Hwa Chong Institution, 2020 – 2021

#### Activities I/C

- Elected by peers to ideate and execute Faculty-wide events and initiatives to promote Faculty bonding and spirit for 600 students (16 members elected / 300 students)
- Spearheaded digitalisation of events via live media production due to COVID-19 restrictions

### 1<sup>st</sup> Place, National University of Singapore (NUS) Lifehack 2021

Jul 2021

#### Gunicorn, Team Noobs [\[Web Report\]](#)

- Created a full-fledged mobile application using React Native and website with HTML5 that addressed the social issue of a mismatch between donors and families in need of donations in a post-COVID world
- Achieved 1<sup>st</sup> Place out of 130 teams mostly comprising of college students after judging from a panel of NUS professors

Elderberry, Team Nozama [\[Github Repository\]](#)

- Accomplished 1<sup>st</sup> Runners Up out of 190 teams and 450 participants after 3 rounds of shortlisting
- Developed an affordable non-invasive smart home system for caregivers to easily care for their elderly, whilst enabling them to age in place with dignity and privacy
- Created a working Minimum Viable Product for Hardware (Arduino ESP32, MQTT, Raspberry Pi), Mobile (React Native), and Web (HTML5) platforms on Huawei Cloud GaussDB
- Innovated Data Analysis pipeline for real-time health anomaly detection, and generated monthly reports for doctors
- Passively collected Indoor Location Positioning via BLE RSSI Triangulation, replacing traditional invasive camera monitoring
- Drafted business proposal that disrupts a market of 500 million elderlies in Asia with estimated yearly revenue of \$1.5m
- Approached by VCs with possible funding opportunities for the product's business potential

## ADDITIONAL INFORMATION

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**Skills:** Python, Django, React Native, SQL, CAD, PCB Design

**Languages:** Native Proficiency in English and Chinese

### Achievements and Interests:

- **Volunteering Experience:** Led Project Vitalize, a Citi-YMCA Youth For Causes project with 200 student volunteers from 30 schools in Singapore. We aimed to raise funds and awareness for our beneficiary, Diabetes Singapore, a charity organisation that provides medical and psychological support for diabetic patients through public funding. Ultimately, we fundraised an estimate of \$12000 and had a combined outreach of 17500 people.
- **Sports:** Member of Hwa Chong Ultimate Frisbee Team (2020 – 2021), Member of Hwa Chong Table Tennis Team (2016 – 2020)
- **Others:** Photography & Videography [\[Website\]](#)