

# TAN GUAN QUAN

+65 85903590 | tguanquan8@gmail.com | <https://github.com/guanquann>

---

## EDUCATION

---

### **National University of Singapore (2022 onwards)**

- Bachelor Degree in Business Analytics with Major in Economics

### **Nanyang Junior College (2018 - 2019)**

- H2 Physics, H2 Chemistry, H2 Mathematics, H2 Economics
- A-Levels rank point: 88.75

### **Xinmin Secondary School (2014 - 2017)**

- Triple Science, Additional & Elementary Mathematics, Geography
- O-Levels score: 9 raw, 5 nett

## ACADEMIC ACHIEVEMENTS

---

- Honour Roll in NYJC Mid-Year Examination (2019)
- Edusave Bursary Award (2016, 2017, 2018, 2019)
- Good Progress Award (2018)
- Edusave Scholarship (2014-2015)
- Represented school in 2016 Singapore Statistics Poster Competition Secondary School Category

## WORK EXPERIENCES

---

### **SAF Computer Vision Unit (SCVU) in NS (Apr 2020 – Jul 2022)**

#### Senior Software Engineer

- Developed Machine Learning pipelines with Tensorflow, Pytorch & Keras to safeguard national security and automate pre-existing manual processes in SAF
- Generate dashboards using Power BI to identify trending/patterns
- Create application with Django and Neo4j to speed up operation processes by 60%
- Soldier of the Month (SOTM) Award in February 2021

### **Defence Science and Technology Agency (Oct 2020 – Apr 2021)**

#### Data Analyst

- Process data & generate dashboards using Qlik Sense to assist National Service Policy Department (NSPD) with NSmen revocation
- Customise a data cleaning algorithm capable of cleaning employment data based on Accounting and Corporate Regulatory Authority (ACRA) data with more than 95% accuracy in 3 weeks
- Awarded the Defence Management Community Commendation Award by MINDEF

## CO-CURRICULAR ACTIVITIES (CCA)

---

### **Interact Club (Junior College)**

#### Committee member of student-initiated project - Silver Friends (2018 - 2019)

- Responsible for organising and coordinating regular visits to an elderly care centre
- Often volunteered in Braddell Heights Community Food Rationing, an initiative that delivers daily necessities to less fortunate families
- Facilitator in Interact Camp, which aimed to select potential candidates to lead Silver Friends in future

### **St John Brigade (Secondary School)**

- Volunteered in many external and internal first-aid events

#### Head of Logistics (2016 – 2017)

- Oversaw & accounted for first-aid kits and supplies in school

#### Head of Operations (2017 Training Camp)

- Responsible for planning and execution of training activities

#### First Aid and Home Nursing Competition

- 2016: 2<sup>nd</sup> place & Best in First Aid award
- 2015: 4<sup>th</sup> place

---

## CERTIFICATIONS

---

ReactJS - The Complete Guide (Udemy)	Completed: Jan 2022
Google Data Analytics Specialisation (Google)	Completed: Dec 2021
Advanced Deep Learning in Computer Vision (Republic Polytechnic)	Completed: Oct 2021
Deep Learning Specialisation (DeepLearning.AI)	Completed: Jul 2021
Custom Models, Layers, and Loss Functions with TensorFlow (DeepLearning.AI)	Completed: Mar 2021
Computer Vision with Deep Learning (Republic Polytechnic)	Completed: Feb 2021

---

## PORTFOLIO AND PROJECTS

---

- GitHub: <https://github.com/guanquann>
- Stocksera: <https://github.com/guanquann/Stocksera>  
Website that tracks trending stocks & cryptocurrency on social media, Congress trading and more. As of Jul 2022, there are more than 340 stars on GitHub

---

## COMPETITIONS

---

- Shopee Code League 2021 (Participant)

---

## PROGRAMMING BACKGROUND

---

- Python
- JavaScript (ReactJS)
- SQL
- Java

---

## DATA VISUALISATION SOFTWARE

---

- Power BI
- Neo4j
- Qlik Sense