

## EDUCATION

**Nanyang Technological University, Singapore**

Aug 2022 – Present

**Bachelor of Science (Data Science and Artificial Intelligence) with a Minor in Economics**

- Current CGPA: 4.24/5.00
- Relevant Modules: Data structures and algorithms, Object-oriented Design and Programming, Software Engineering, Calculus, Probability, Statistics, Linear Algebra

## AWARDS AND ACHIEVEMENTS

- Academic Excellence Award (Distinctions in All Content Subjects for 2019 A-Levels)
- Commander's Coin and Letter of Commendation from Formation Commander (National Service)
- NTU School Scholarship (School of Computer Science and Engineering)

## ACADEMIC PROJECTS AND COMPETITIONS

**SC1015 Introduction to Data Science and Artificial Intelligence - Apple Stock Price Predictor**

- Analysed NASDAQ-related Twitter sentiments using VADER, achieved 56% stock price prediction accuracy with Random Forest Classifier.

**SC2002 Object Oriented Design and Programming - FYP Registration Application System**

- Developed an application using OOP and MVC architecture.

**HE3022 Public Economics – Simulation of Tax Cuts and Job Acts policy**

- Simulated Tax Cuts and Jobs Act policy; found minimal impact on income inequality with a slight benefit for higher earners and a 12.2% decrease in tax revenue.

**AIFINITY - Hospital Death Rate Predictor**

- Analysed patient's vitals and conditions, conducting EDA and utilizing LightGBM, Random Forest, and TensorFlow Keras for mortality rate prediction.

## RESEARCH EXPERIENCE

**Artificial Intelligence and Data Science in Classrooms**

Aug 2023 – Present

- Research project under National Institute of Education, aiming to analyse how a teacher's speaking can affect student's learning in classrooms.
- Defined research questions utilising datasets from local secondary schools' and primary school's classrooms.
- Designing and implementing speech diarization pipelines using PyTorch, OpenAI Whisper, Pyannote, PyDub.
- Applied NLP methodologies for sentiment analysis of speech.

## WORK EXPERIENCE

**Minmed Pte Ltd**

Nov 2021 – Present

**Vaccinator (COVID-19 Vaccination Centre Operation)**

- Led a team of vaccinators and nurses and ensured daily operations ran smoothly.
- Resolved conflicts from staff and patients.

## CO-CURRICULAR ACTIVITIES

**Nanyang Technological University Tanjong Hall, Financial Controller**

May 2023 – Present

- Collaborated with main hall leaders to strategically review and introduce innovative changes to various hall events, leading and collaborating closely with a team of 20 individuals to engage 800 residents.
- Managed hall's finances by ensuring transparency through documenting transactions, processing claims/disbursement, and providing assistance during audits.
- Provided consistent leadership, empowering and mentoring a team of 20 members, fostering strong communication lines for feedback and direction.

**Nanyang Technological University Tanjong Hall, Business Secretary**

Aug 2022 – Apr 2023

- Identified the need for better organisation and thus took lead by overseeing hall's bi-annual Exam Welfare Night. Delegated tasks efficiently and inspired a team of 10 to prepare welfare items for 900 hall residents.
- In charge of liaising with corporate entities to sponsor internal events, utilizing strong negotiation and communication skills to establish partnerships and sponsorships.

**Nanyang Technological University IEEE Business Secretary**

Aug 2022 – Apr 2023

- Contributed significantly towards preparation of iNTUition, a 24-hour flagship hackathon event that oversaw over a hundred participants.
- Liaised with corporate entities to sponsor hackathons and events, showcasing excellent communication skills to negotiate sponsorships and ensure smooth event flow.

**Temasek Junior College, Volleyball Team Player**

Feb 2018– Apr 2019

- Represented college in the 2019 National School Games A-division Championships.

**Bedok Reservoir Punggol Youth Network Member**

Jun 2022 – Present

- Conceptualised and proposed program initiatives to engage youth and residents of Bedok Reservoir Punggol.

**SKILLS**

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**Languages:** English, Chinese**Programming:** C, C++, Java, Python, R**Software Applications and Data Analysis Tools:** Microsoft office, Pandas, Scikit-learn, NLTK, Seaborn, PyTorch, Tensorflow, Google Cloud Platform, Tableau**Database:** SQL**LINKS**

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**Github:** [github.com/JustinWong645](https://github.com/JustinWong645)**Tableau:** [public.tableau.com/app/profile/justin.wong2178/vizzes](https://public.tableau.com/app/profile/justin.wong2178/vizzes)**Personal Website:** [justinwong645.github.io](https://justinwong645.github.io)