**Justin WONG | Mobile No.: 9731 0278 | Email: justinwong645@gmail.com**

**EDUCATION**

**Nanyang Technological University, Singapore** Aug 2022 – Present

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

* Current CGPA: 4.26/5.00
* 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 an 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 attention of students in classroom.
* Defined research questions utilising datasets from local secondary schools’ 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 to 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**

**Languages:** English, Chinese

**Programming:** C, C++, Java, Python

**Software Applications and Data Analysis Tools:** Microsoft office, Pandas, Scikit-learn, NLTK, Seaborn, PyTorch, Tensorflow, Google Cloud Platform,

**Database:** SQL

**LINKS**

**Github:** github.com/JustinWong645

**Personal Website:** justinwong645.github.io