

Jun Onn TAN

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EDUCATION

Singapore University of Technology and Design (SUTD)

Singapore

B.Eng. in Engineering Systems and Design, Honours with Highest Distinction

Sept 2021 to Present

- Focus Track: Business Analytics and Operations Research, Aviation Systems
- GPA: 4.52/5.0
- Scholarships: SUTD-Wilmar Scholarship Holder, Lim Pu Leh Bursary Recipient
- Expected Date of Graduation: May 2025

WORK EXPERIENCE

Great Eastern Life Assurance Co. Ltd

Singapore

Digital Analytics Intern (Google Analytics)

Aug 2023 to Dec 2023

- Developed and implemented custom JavaScript tags for Google Tag Assistant and Qualtrics, enabling accurate user behavior tracking across 5 corporate websites, including OCBC bancassurance platforms and internal insurance agent platforms.
- Designed Google Looker dashboards to monitor international sales and marketing performance, analyzing user acquisition, advertisement drop-off rates, and e-commerce funnels for marketing campaigns valued up to \$2 billion.
- Extracted, transformed, and loaded data for machine learning, enhancing customer personalization and retargeting strategies.

Codomo Pte Ltd

Singapore

Marketing and Sales Intern

May 2022 to Aug 2022

- Organized fulfillment operations for computer science board games, shipping over 1,000 orders to Kickstarter backers worldwide using SFC, Deliverr, and EasyParcel.
- Copywriting content for company blogs and designing social media ads, increasing Edu-Tech product sales and engagement using Meta Ads Manager and Google Analytics by at least 20%.
- Developed and curated 8 educational slide decks teaching basic Python programming, licensed to Science Centre Singapore and implemented in secondary schools.

ACADEMIC PROJECTS

Enhancing Intelligent Cleaning Robots

Jun 2024 to Present

University Capstone

- Led a team of 7 to collaborate with Changi Airport Group, resulting in the design and development of a spot cleaning robot for deployment in the Terminal 2 departure hall, aimed at improving operational efficiency in high-traffic areas.
- Designed and implemented an adaptive coverage planner algorithm in C++ with a ROS wrapper using boustrophedon cellular decomposition to optimize robot cleaning efficiency and minimize operational foot-traffic disruption.
- Developed a dynamic user interface with real-time analytics using ReactJS and Python, enabling actionable insights into system and hardware metrics stored in an SQLite database.

Modelling Sanya Phoenix International Airport

Sep 2024 to Dec 2024

University Assignment

- Developed a predictive multiple linear regression model to forecast aircraft movements, leveraging Python Sklearn and Excel for correlation analysis, polynomial extrapolation, and scenario-based forecasting for airport capacity planning.
- Mathematically modelled arrival demand profiles, scheduled ground time, and aircraft type generation through rejection sampling and polynomial regression in R to generate sample data for scenario-based aircraft demand scheduling.
- Simulated airport operations and runway performance using CAST, analyzing taxi time and average delays; conducted capacity analysis to define airport capacity envelope, providing data-driven recommendations that reduced average wait time by 35% and increased operational capacity by 23%, optimizing airport efficiency.

Border Checkpoint Game

May 2023 to Aug 2023

University Assignment

- Led a team of 4 in designing and developing a border checkpoint simulation game that gamifies queueing system management while teaching queueing theory concepts to optimize and display performance metrics using R.
- Implemented front-end development using JavaScript, CSS, and HTML within RShiny, and Excel VBA to automate game engine while integrating MySQL for database management, supporting personal and global leaderboard systems.
- Developed a functional prototype within 3 months, along with comprehensive system definition documentation outlining the entire process flow from user interaction to database management and interface design.

CO-CURRICULAR ACTIVITIES

St. Johns Ambulans Malaysia

Jul 2015 to Oct 2021

Division Chairperson

- Awarded the Grand Prior Award by the Lord Prior, HRH Duke of Gloucester for completion of the St. John Cadet Scheme.
- Led weekly division meetings and organized 5 community service projects, earning the Service Shield and Service Star for completing over 100 hours of service to the community.

ADDITIONAL INFORMATION

- Proficient in Python RStudio, Tableau, C++, ROS, SQLite, ReactJS, ChartJS (JavaScript)
- Analytical, Problem Solver, Project Manager, Detail Oriented, Adaptability, and Collaborative.
- Fluent in English, Bahasa Melayu (Speaking and Writing)