Ken Tan Jian Shun

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Education Background

MEng Civil Engineering, Imperial College London **(October 2019 - present)**
- First Class Honors in Year 1 **(2019/2020)**, First Class Honors with Dean's List in Year 2 (**2020/2021**).

Work Experience

Engineering Consultancy Intern, G&P Geotechnics Sdn. Bhd. **(July 2021 – September 2021)**
- Learnt how to compile and interpret data based on engineering concepts to gather insights for design purposes.
- Worked out a subsurface investigation bill of quantities for the client's reference and budget planning.
- Motivated myself to explore various engineering software and technology such as Slope/W and SAFE for engineering design processes through official documentation, to assist the firm in design analysis works.
- Used my creativity to independently develop an innovative in-house algorithmic automation spreadsheet for rock support designs to be used in the firm's excavation works.

Leadership Experience

Projects and Events Director, YME-UK (Young Malaysian Engineers, UK) **(October 2019 – February 2021)**
- Spearheaded the event planning team within YME-UK, a non-profit student organization focused on initiating tech and engineering related events to uplift STEM undergraduates and postgraduates.
- Organised a Python Workshop at Imperial College London to kickstart python programming and data science learning, with over 50 attendees. Worked with the finance team to secure a $445 grant from the Python Software Foundation.
- Deployed an officer training program framework and led the training of 13 newly recruited YME-UK officers.

Executive Coordinator, Malaysian Students' Technology Week (MSTW) **(January 2020 – August 2020)**
- Led and worked with a team of 45 individuals to plan for Malaysia's largest student-led technological conference, which had roughly 380 participants. Oversaw the operations of 4 different departments established for this conference.
- Brainstormed sudden logistical transitions by leveraging and exploring online live-streaming platforms within a short timeframe to account for the COVID-19 pandemic.
- Pitched event proposals to various well-renowned industry experts to invite them to speak for our event.

Programming Experience

MATLAB | *Statistical Analysis, Data Visualisation, Object-oriented Programming, Scripting*
- Object-oriented programming to conduct finite element analysis on trusses as part of my Year 2 computational project.
- Conducted statistical analysis on a large dataset comprising of data from weather stations around USA for weather prediction using MATLAB's statistical functions and toolkits.

Python | *Data Science (Numpy, Matplotlib, Pandas, NetworkX, Sklearn, PulP), Object-oriented Programming, Scripting*
- Conducted data analysis on a dataset from TFL (Transport for London) to select the best stations for implementing step-free accessibilities using libraries such as Pandas, Matplotlib, Numpy, Matplotlib and PulP.

VBA with Excel | *Automation, Macros, Web queries, Scripting*
- Created a personalized dashboard with useful automation features and metrics for managing cryptocurrency portfolios.

Extracurricular Activities/Achievements

- **Avid Pianist** – 1st Malaysia, China and Korea International Friendship Piano Open Competition Participant **(2017)**, ATCL Piano Recital Diploma **(2018)**, 2020 Malaysian Night Keyboardist **(2020)**
- **Orchestral Violinist** – Trinity Grade 5 Violin **(2016)**, Osaka International Music Festival **(2016)**, Genting International Music Arts Festival **(2015, 2016**), Penang Music Arts Festival **(2017)**
- **Fitness enthusiast** - Spartan SEA Regional Series Finisher, Lost World of Tambun **(2019)**
- **Volunteering** – Guest pianist, Meals4Medics (virtual fundraising event for COVID-19 front-liners) **(2020)**
- **Extracurricular** – Musical Director for Malaysian Night **(2021)**, Vice-Captain for the ICL Lion Dance Society **(2020, 2021)**

Technical Skills and Interests

Languages: Fluent in English, Mandarin, Cantonese and Bahasa Melayu.
Software and Tech: Proficient in Microsoft Word, Excel, Powerpoint. Exposed to Slope/W, SAFE, Grapher 10, AutoCAD, Git.
Programming Languages: MATLAB, Python, VBA (Excel). Exposed to HTML and SQL.
Musical Software: GarageBand, Logic Pro, Musescore 3.
Interests: Technical analysis trading, personal finance/investing, jazz and classical piano, personal fitness, reading, programming, technology, data science and automation.