ZHEN YANG SOH

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Education

Aerospace Engineering (MEng) | University Of Bristol   2017-2021

- 4th Year: First Class Honours (72%)
- 3rd Year: First Class Honours (72%)
- 2nd Year: First Class Honours (75%)
- 1st Year: First Class Honours (73%)

Canadian International Matriculation Program | Sunway College   2016

- Ontario Scholar Award: Overall Grade above **90%**

Ontario Secondary School | Sunway International School (SIS)   2011-2015

- Completed 40 hours of community volunteering
- High Distinction (90+%) in Physics, Mathematics, Chemistry, Biology, English, and Business

Work Experience

Data Analyst Intern | YNY Technology Sdn Bhd | Shah Alam   Oct-Dec 2021

- Created SSRS data reports using SQL queries based on client's requirements
- Enhanced client's database in SSMS to include history tables and triggers (SQL)
- Wrote a user guide for a web-based lab digitization API
- Learned basic server, database administration, C#, website hosting (IIS, SSL), CMMS

Projects

Sports Hypothesis Testing Project (Python)   2022

- Imported messy csv data into DataFrames and performed data cleansing using regex and string manipulation
- Grouped sports teams by cities by merging DataFrames and aggregating their populations
- Tested for correlation using aggregated data

Satellite Group Design Project   2020-2021

- Worked in a multi-disciplinary team of 8 to design an Earth Observation satellite based on requirements from Airbus Defence & Space
- Researched and conducted trade-offs for launch vehicle selection
- Tracked requirements and analyzed its implications on design
- Selected and compared data handling units in compliance with communications sub team
- Estimated the cost of the satellite using a parametric cost model
- Presented final design review in front of Airbus Defense and Space Representatives

Composite Optimization of Payload Fairing   **2019-2020**

- Performed image binarization and interpolation of the Ariane 6 payload fairing using MATLAB
- Coupled MATLAB input file scripting to Finite Element Analysis in ABAQUS successfully
- Calculated effective properties of composite structures using homogenization models

Aerodynamics Feature Design Project   **2020**

- Plotted the feature design space to select thrust and wing loading combinations for aircraft design
- Ran a simulation to size and optimize the tailplane of an aircraft based on stability constraints

Certificates & Online Courses

Introduction to Data Science in Python | University of Michigan   **March 2022**

Applied Plotting, Charting & Data Representation in Python | University of Michigan   **May 2022**

Applied Machine Learning in Python | University of Michigan   **May 2022**

Skills

Data Analytics Related	MS SQL, Python, Pandas, Numpy, Regex, SSRS (Intermediate)
Programming	Python, MATLAB (Intermediate), C / C++ / Arduino (Fundamentals)
Microsoft Office	Word, Excel, Powerpoint (Advanced)
Language	English (Native), Mandarin (Fluent), Bahasa Malaysia (Conversational)

Extra-Curricular Activities

University Of Bristol Malaysian and Singaporean Association   **2018**

- Lead a group of freshers in an introductory camp with the purpose of preparing them for university

International History Bee & Bowl   **2014-2015**

- Represented SIS in an international history / general knowledge trivia competition
- Worked in a group of 8 to research and prepare for the competition
- Specialized in scientific breakthroughs and technological advancements

State Chinese Chess Competitions   **2007-2010**

- Won third place in a state level Chinese Chess Competition and competed regularly for 3 years

Interests

Badminton, Filmmaking / Video Editing, and Chess.

References Available upon Request