

EDUCATION

Singapore Institute of Technology (Joint Degree with University of Glasgow)

Sep 2019 to
Sep 2022

- Computing Science (*Bachelor of Sciences: Honours*)
- Honours with Merit (*Result*)

Temasek Polytechnic

Apr 2014 to
Apr 2017

- Diploma in Information Technology

RELEVANT PROJECTS

Singapore Institute of Technology

Interactive COVID-19 Line-Charts (For Data Exploration) [GitPages/Code Link](#)

Jul 2022 to
Aug 2022

- Re-designed and implemented a more analytics based COVID-19 Multi Line Charts (adapted from John Hopkins University) with the aim of allowing Users drill-through the available COVID-19 data points of 200+ Countries by filtering to determine the cases' impact with regards to the parameters specified: Point-in-Time (Days) and the selected Countries.
 - Technologies Used: Vanilla HTML, CSS, and JavaScript with D3.js (Data-Driven Documents) for Data Representation/Manipulation, and Python (via Jupyter Notebooks) for Initial Data Preparation/Compilation of CSV Datasets.

Credit Scoring for Loan Eligibility (Using Machine Learning and Scorecard Generation) [Report/Code Link](#)

Jun 2022 to
Jul 2022

- Improved upon existing Credit Scoring framework/code known by the Research Community through the addition of Feature Scaling and Model Tuning Optimizations which elevated the Logistic Regression Model's performance, as compared to without them, through various evaluation metrics prior to developing an operational Scorecard for Companies to determine their customers' Defaulting Tendencies regarding their requested Credit Loans.
 - Technologies Used: Python (via Jupyter Notebooks), and libraries including Pandas/NumPy, SKlearn, Matplotlib, to procure the relevant Data Preparations, Feature Selection (via Chi-Squared/Anova-F-Test), Weight-Of-Evidence Binning (via WoE/Information Values), Optimizing Model Parameters (via Grid-Search/ StandardScaler) and Scorecard Generation based on the CSV Dataset (from [Lending Club](#)TM).

Mobile Application Development (For Logistics Purposes)

Feb 2021 to
Apr 2021

- Collaborated with and led a team of 5 within the stages of procuring (i.e. planning, designing, procuring and user-testing) a responsive Mobile-based Android Application with a remote database to efficiently replace the paper-based logistical approaches currently implemented by the Ministry of Home Affairs (MHA) while adhering to UI/UX principles.
 - Technologies Used: Kotlin (via Android Studios), Google's Firebase for Remote Data Storage.

WORK EXPERIENCE

Self-Sourced Freelancing

Dec 2020

Mobile Application Development

- Aided dozens of students from various institutions by designing and developing Mobile-based Applications, ranging from Location Tracking to Logistical Data-Keeping, with inline-code documentations to better facilitate code comprehension.
 - Technologies Used: Java (via Android Studios), Google's NoSQL Firebase Database and/or SQLite Database for Data Storage, and Google Maps API for visualizing GPS locations, attaining location's addresses, etc.

Internship at AET Tankers' IT Department

Sep 2021 to
Apr 2022

- Joined AET Tankers as an Intern to assist in the requirements gathering for customized IT solutions prior to collaborating with the respective external vendors in validating the projects' deliverables according to the user requirements, while assisting the IT Team in VBA Macro Programming tasks.

NATIONAL SERVICE

Air Force Command (Paya Lebar Airbase)

Jan 2018 to
Aug 2019,

- Assisted in Preparing and Transporting documents to/from various locations (i.e. army camps, civilian buildings).

Sep 2022 to
Oct 2022

CO-CURRICULAR ACTIVITIES

Temasek Polytechnic (TP)

Apr 2015 to
Apr 2017

- Trained/Competed with TP's Archery Compound Team for various Institutional/Organizational Archery Competitions.

OTHER ACTIVITIES

- 3D Printing with DIY Modelling/Designing/Printing/Troubleshooting
- Arduino Uno Pet Projects (e.g. Radiating Frequency Generator, Motion Detection/Actuator System)
- Certifications with AISingapore's and DataCamp's Data Scientist with Python Track (*Certificate #64024*)