

Neo Yong Yi, Darren

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EDUCATION

Singapore Management University

Singapore

Bachelor of Science (Information Systems – Business Analytics & Digital Cloud Solutions)

Aug 2019 – May 2023

- Dean's List AY 20/21

Temasek Polytechnic

Singapore

Double Diploma in Business Analytics and Business Fundamentals, cGPA: 3.61 / 4.0

Apr 2013 – Apr 2017

- TP-SAS Scholarship Program 2015 & 2016

PROFESSIONAL EXPERIENCE

Government Technology Agency (GovTech)

Singapore

Software Engineer – Data Intern

May 2021 – Aug 2021

- Built and integrated an automated monitoring microservice with Java and Docker for the Personal Alarm Button (PAB) project to retrieve crucial alert information stored in messaging broker sent by clients to the button.
- Implemented an automated microservice via Cron, Docker and Flask to retrieve, process, and insert stakeholders' data from HDB's Cassandra database for more efficient integration and deployment of the PAB project.
- Designed and developed an email service in Javascript and Java that interacts with SendGrid API to inform stakeholders with regards to the updates of PAB clients.

BMW Group Asia

Singapore

Data Science Intern

Aug 2020 – Dec 2020

- Utilized a time-series forecasting model named FBProphet to predict BMW's Bank future cash-flow and automating it on a monthly-basis via AWS Sagemaker for relevant department to make efficient financial decisions.
- Deployed interactive map-based visualizations of key dealership branches to provide insights on used-car analytics for the relevant departments to track second-hand car trends with Python libraries' Seaborn & Matplotlib.
- Presented new in-car machine-learning uses cases for the innovation team to senior management.

SAS Institute Pte Ltd

Singapore

Business Analytics Intern (Pre-Sales)

July 2016 – Feb 2017

- Developed an interactive dashboard with SAS Visual Analytics for National Service use-cases, highlighting insights of attrition trends for MINDEF.
- Wrangled and feature-engineered data retrieved by DSTA's distributed data sources using Excel and Data Management Studio for a SAS' tender demonstration.
- Remediated data governance issues with Data Management Studio faced by external clients and wrote a detailed analysis report to present to clients and senior leadership.
- Managed several minor data management projects with clients such as DSTA, MINDEF, MOM, and Singtel.

SKILLS

Programming Languages

- Python, Java, Javascript, SQL, PHP, CSS, HTML5

Libraries, Frameworks and Tools

- Numpy, Pandas, Matplotlib, seaborn, scikit-learn, plotly, Springboot, VueJS, Git, GitHub, Unix shell

Other Tools

- Docker, Jenkins, SpringBoot, Microsoft Azure, Amazon Web Services (AWS), Cassandra, SAS Visual Analytics, SAS DataFlux Management Studio, SAS Enterprise Miner, Qlikview, Tableau, Microsoft Office

PROJECTS

[Data Visualization & Data Quality Project](#) | Capstone project highlighting solutions with data visualizations based on data governance issues faced by DSTA.

[Data Quality POC Project](#) | Data engineering project for Singtel to highlight the functionalities of SAS' products.

[RecipePal](#) | A web application for recipes' search. Managed and produced the backend structure of the project.

[RaffleOak](#) | Docker-deployed application developed in Python based on a microservice architecture to facilitate the raffling process of rare products.

EXTRA-CURRICULAR ACTIVITIES

Project Khuaam IV

Singapore

Programmes Deputy

Aug 2019 – Dec 2019

- Planned and conducted music, sports and cultural lessons for a class size of 40 Laotian students.
- Constructed a water filtration system for the village.