

Jun Wei NG

Software Engineer



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Singapore



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SKILLS

Problem Solving

Project Management

Leadership

Data Analytics

Python

Power BI

Alteryx

Tableau

JavaScript

HTML

Plotly Dash

CSS

Git

Shell

SQL

Hadoop

Hive

Impala

Data Structures

Algorithms

LANGUAGES

English

Native or Bilingual Proficiency

Mandarin

Professional Working Proficiency

WORK EXPERIENCE

Software Engineer

National Computer Systems

12/2021 - Present

Achievements/Tasks

- Developed pipelines migrating financial data from sources such as Salesforce & SQL Databases into the Hadoop ecosystem via a combination of Shell, Python and SQL languages
- Engaged client on their intricate financial equations and performed complex joins and SQL queries to formulate the target table view within the Hive metastore
- Automated the counterparty information creation/update process using Power Automate that reduced manual hours by up to 100 hours per month

Data Analytics Consultant

PricewaterhouseCoopers Singapore

04/2021 - 11/2021

Achievements/Tasks

- Developed the business process model for an international retail bank data analytics team's work processes, including documentation on responsibility assignment matrix, key performance indicators and improvement plans, enabling the company to be audit-compliant and improve on their operational efficiency.
- Evaluated the risks and controls for the predictive model creation process of an international retail bank through thorough review with data governance best practices, enabling the identification of several potential compliance gaps and the proposal of feasible solutions.

Technical Lead Engineer

ExxonMobil / Singapore Chemical Plant

07/2017 - 04/2021

Achievements/Tasks

- Performed regression analysis on a fouling heat exchanger's heat coefficient to better predict its end-of-life, thereby maximizing its run length and reducing shutdown costs of USD 300K
- Evaluated plant performance by conducting thorough data analysis using Seeq on equipment parameters to identify potential arising problems bringing about cost savings of USD 1Mil.

SOFTWARE PROJECTS

Web Dashboard for Simplified Stocks Analysis (06/2021 - 08/2021)

- Developed a financial dashboard for a client using Dash Plotly that pulls stock information from a backend finance database. Include additional functionality of a stock screener to search for similar stocks based on user specified parameters such as revenue growth, free cash flow, etc.

Booking System Automation with Python (05/2021 - 06/2021)

- Automated the booking process for badminton courts. Utilized Python's BeautifulSoup library to perform static html web-scraping and create get and post requests to navigate through the booking webpages; incorporated 3rd party API to overcome recaptcha and captcha obstacles

Machine Learning Projects (01/2021 - 04/2021)

- Developed a Convolutional Neural Network Machine Learning model using the Keras library that can differentiate cat and dog images with an accuracy of around 95%. Developed a K Nearest Neighbours Machine Learning model using the Scikit-Learn library that serves as a simple book recommendation model. Experimented with Q-learning concepts by developing a rock-paper-scissors AI that can learn from the results of the previous play and improve its chances of winning

EDUCATION

• Bachelor of Engineering with Honours

National University of Singapore (NUS)

08/2014 - 07/2017

GPA: 4.62 out of 5