Justin WONG

Singapore | +65 83115336

work@jwjh.onmicrosoft.com

 amidstdebug | amidstdebug

SUMMARY

As an Adept Analytics student, Justin applies his AI Business Analytics expertise to various projects in collaboration with industry experts. He also pursues his own exploration of new technologies, such as deep learning, natural language processing, and computer vision. His self-directed learning helps him to stay updated and innovative in his field. His leadership skills enable him to deliver solutions that are customer-centric and data-driven.

EDUCATION

SINGAPORE POLYTECHNIC   *2021-2024*

DIP. IN APPLIED AI & ANALYTICS

• Specialised in Data Science and Data Analytics Coursework

• Capstone Project: Partnered with Google to develop a state-of-the-art Web-Based Smart Course Recommendation System

EXPERIENCE

CAPSTONE PROJECT   *April 2023 - October 2023 / Singapore*

LEAD AI ENGINEER

• Worked with Google and PACE@SP to lead the development of a state-of-the-art Computer Vision and Chatbot Web-Based Resume Parsing System, using data from various online sources and natural language processing techniques

• Created a Vue.js admin dashboard with data analysis, security, and HR management functionalities. Seamlessly integrated the dashboard with the main capstone project of state-of-the-art Web-Based Smart Course Recommendation System.

PROJECT INC   *October 2022 - April 2023 / Singapore*

SENIOR DATA SCIENTIST

• Pioneered a state-of-the-art Natural Language Process (NLP) Web-Based Smart Course Recommendation System, scoping data inputs from SSG Jobs Skills Repository

• Researched analytics solution requirements and specifications during our technical design sessions with cross-functional scrum teams, operating across various sectors to develop and deploy data & analytics solutions.

SP ARTIFICIAL INTELLIGENCE STUDENT CHAPTER   *September 2022 - April 2024 / Singapore*

EXECUTIVE BOARD

• SPAI is a student chapter of AI Singapore, with the mission of promoting AI literacy in Singapore Polytechnic

• As part of Board of Operations, I handle the operational aspects of SPAI, such as organising committee events and public talks in front of schools. These events include In-House Hackathons such as CodeLeague 2022

SP SEED STUDENT INTEREST GROUP   *May 2022 - April 2024 / Singapore*

BOARD OF DIRECTORS

• Director of SEED SIG, a student group that fosters coding skills and interest among students through engaging programmes and events.

• Led and organized various successful coding workshops and conferences with over 100 attendees, such as How To: Ace Your FOP 2022 and How To: Artificial Intelligence.

PROJECTS

DEEP LEARNING PROJECTS   *Oct 2022 – Feb. 2023 / Singapore*

EXPLORING DIFFERENT DEEP LEARNING PARADIGMS AND APPLICATIONS.

• Built a Fashion MNIST Classification Model with high accuracy and generalization for smart image recognition.

• Built a CIFAR 100 Classification Model with CutMix data augmentation for fine-grained image recognition.

• Implemented a CIFAR 100 GAN Model with SNGAN to generate realistic images for sample testing.

• Implemented a Lunar Lander v2 RL Model with DQN to optimize lunar module landing in a realistic environment.

Scikit-Learn Machine Learning
April 2022 – Sep. 2022 / Singapore

Venturing into different machine learning paradigms and applications.

• Built a Classification Model to forecast machine failures and boost production efficiency and profits.

• Built a Regression Model to estimate PC Prices based on product specifications and consumer interests.

• Implemented a Time-Series Model to forecast different levels of gaseous pollutants in the atmosphere across a 20 year time period, preventing adverse effects on human health through air pollution

• Built a Time-Series Model to predict gaseous pollutant levels and prevent air pollution health risks.

DATA ENGINEERING
April 2022 – Sep. 2022 / Singapore

DESIGNING AND BUILDING PIPELINES FOR COLLECTION, STORING, AND ANALYSING OF DATA AT COMMERCIAL SCALE.

• Constructed and deployed a commercial OLTP database design & construction using Transact-SQL and Microsoft SQL Server Management Studio

• Constructed and deployed a commercial OLAP data warehouse, and pipelining with Google Cloud API Services (T-SQL, NoSQL)

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate
Feb. 2023 / Singapore

The Microsoft Certified: Azure Data Scientist Associate certification validates the subject matter expertise in applying data science and machine learning to implement and run machine learning workloads on Azure.

This includes: designing and creating a suitable working environment for data science workloads; exploring data and training machine learning models; preparing a model for deployment;

GOOGLE ANALYTICS INDIVIDUAL QUALIFICATION
Oct. 2022 / Singapore

The Google Analytics Individual Qualification covers basic and advanced Universal Analytics concepts.

This includes: planning and principles; implementation and data collection; configuration and administration; conversion and attribution; and reports, metrics, and dimensions.

MICROSOFT CERTIFIED: AZURE AI FUNDAMENTALS
Sep. 2022 / Singapore

Azure AI Fundamentals validates foundational knowledge of machine learning and artificial intelligence concepts and related Microsoft Azure AI.

SOFT SKILLS

LEADERSHIP
Being part of Board of Directors of SEED and Executive Board of SPAI trained me to practice active listening and flexibility whilst adopting a servant-leadership methodology. This paved the way for steadfast and resolute growth, honing and transforming my leadership capabilities.

COLLABORATION
As part of a Scrum Team, I learnt how the Agile Methodology is able to flourish in collaboration environment, and relying on each other as a team to work through unfamiliar waters and emerging stronger and more resilient. This propelled our team to successful partnerships with industry leaders such as Google

TIME MANAGEMENT
Having worked in a Scrum Team, I mastered the art of time management through the tight weekly deadlines to produce a Minimum Viable Product (MVP). This meant prioritising, organisation, delegation and strategic planning to achieve our Sprint PBI requirements.

HARD SKILLS

PROGRAMMING LANGUAGES	Python	JavaScript	T-SQL / MySQL	Vue, HTML, CSS
SOFTWARE DEVELOPMENT	Programming Paradigms	Git	CLI	Agile Methodology	DevOps Lifecycles
FRAMEWORKS & LIBRARIES	Matplotlib, Plotly, Seaborn	Numpy, Pandas	Scikit-learn, TensorFlow, Keras
LANGUAGES	*Native:* English *Fluent:* Chinese