Poh Jun Leng

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EDUCATION & SKILLS

Nanyang Polytechnic | *Diploma in Information Technology*   Singapore | 2019-2021

- Coursework: Python, JavaScript, HTML/CSS, Artificial Intelligence (Specialization).
- Notable Courses: Database Management Systems, Data Structures & Algorithms, Advanced Programming, Foundation of AI, Machine Learning Technique, Robotic Process Automation.

Skills: Python | JavaScript | HTML/CSS | Flask, Keras | Bootstrap | Object-Oriented Programming

Computer Science 101: Master the Theory Behind Programming (Udemy)   05/2023

EXPERIENCE

Aktus M.U. Kreativ Pte Ltd | *Software Developer (Freelance)*   Singapore | 03/2022 – 08/2022

- Improved clock-in time of ~**100 employees by 90%** by creating a full stack application from scratch to streamline and track employee clock ins.
- Ensured ~**99% accuracy** in user clock in location by integrating **Google Maps API** to cross check users' current location with company's address.
- Integrated and utilized **Google FireStore** as a database to create and retrieve user's data (e.g. clock in/ out times, location).
- Returned as Freelancer via request from CEO due to excellent previous performance.
- Deployed application for testing phase via **ngrok** (API deployment).
- Frontend: **JavaScript , HTML,/CSS (Boostrap)** | Backend: **Python (Flask), Google Firestore.**

Aktus M.U. Kreativ Pte Ltd | *Software Developer (Intern)*   Singapore | 03/2021 – 07/2021

- Prevented data tempering from malicious users by creating Google FireStore security protocols as part of database management.
- Fixed bug in application where users will clock in multiple times when user refreshed page.
- Implemented dynamic CSS user interface resizing when users resize application display.

Frontend: **JavaScript, HTML/CSS (Bootstrap)** | Backend: **JavaScript, Google FireStore**

PROJECTS

NVDIA Stock Prediction (Recurrent Neural Network)

Using 5 years of previous data, predict NVDIA stock price (tested against test data from dataset).

- Utilizing **Yahoo Finance API**, retrieve past 5 years of NVDIA close prices.
- Split the data into 2 different sets (training and test sets).
- Used MinMaxScaler to rescale training data and test data.
  - Allows the data to be transformed into a range between 0 and 1 while keeping its relative relationships between each value. (Converts data in dataset into a feature).
- Created Sequential Model with Keras (Optimizer: Adam, Loss: Mean Squared Error).
  - Adam used as its efficient with time-based series data, mean squared error used as it's a good estimate for future price values.
- Trained and back-test model with training and test sets respectively.
- Utilized **MatPlotLib** to visualize predictions against test data.
- Results :17.70 (Mean Squared Error, 4.21 (Reversed Mean Squared Error).