**Poh Jun Leng**

[junleng.poh@gmail.com](mailto:junleng.poh@gmail.com) | +65 9793 0003 | [LinkedIn](https://www.linkedin.com/in/poh-jun-leng/) | Singapore

**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](https://www.udemy.com/certificate/UC-dacd28ae-2cef-485d-8f48-1df4a4bab047/)) 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)**](https://colab.research.google.com/drive/1JigKU6HM7_U8neTYAfStFD-dgPaJ42OB?usp=sharing)

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).