Samuel Lee (Jia Khai)

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Experiences

Software Engineer Microsoft

Bellevue, Washington May 2020 - Present

· Microsoft Teams.

Software Engineer (Siri Language) Apple Inc. (Advantis)

Cupertino, California Oct 2018 – May 2020

- Implemented data pipeline automation tools and Named Entity Recognition (NER) tools to automate data transformations, increased work efficiency which minimized hours of work to minutes with precision and accuracy.
- Built an Automatic Speech Recognition (ASR) tool using Keras to detect incorrect dictation English and Malay words using LSTM with >85% accuracy. This began as a side project that I drove to completion as I am interested in Machine Learning.
- Developed a data crawling tool and performed pre-processing to extract and transform results to be in a usable format. This is to create an alternative source for data ingestion.
- Development on Siri for Malay language with data cleaning and bug fixing.

R&D Software Engineer Intel Corporation

Penang, Malaysia June 2017 - Sept 2017

- Created Quality Assurance (QA) Regression Framework to automate 10+ vigorous tests as a nightly regression. This framework shortened regression testing time from (up to) 2 days to an hour.
- Performed development and code debugging on a C++ based in-house schematic visualization tool for Intel engineers. Managed to solve problems the tool has been facing, resulting a improving user experience and performance of the tool.
- Implemented new features to provide useful information for the user and fixes to major bugs. This development was carried out in a remote Unix server which results in my interest in using terminals for simple actions.

Projects

samueliklee.me (Collection of Personal Projects)

California, US Sept 2019 - Present

- Pneumonia Detection (*Github*) Created a Pneumonia Detection model with 82% accuracy. Classification built using Transfer learning technique on VGG16 pre-trained model using Keras and Tensorflow 2.
- Image Classifier A Flask web app to perform image classification using Keras and ResNet50 CNN model.

CoronaTracker (coronatracker.com) Open Source Project

Remote, MY-US Jan 2020 – May 2020

- Community powered web application to provide the latest stats and news sources worldwide.
- Developed the Full Stack of the web app from backend API layer to frontend integration and user interface using *Vue.js*, *Node.js*, *Express.js*, *REST*, and *MySQL*.
- Created a web crawler to extract numerious news sources to provide the most up-to-date articles regarding COVID-19 using *Python*.

Technical Skills

- Python, GoLang, C/C++, SQL, Bash, Shell, XML, HTML, CSS, Javascript
- Git, Django, Flask, PostgreSQL, Keras, TensorFlow
- BigQuery, Google Cloud Platform, Tableau, Vim, Unix/Linux environment
- REST API, RegEx (Regular Expression), Data (Cleaning/Processing), Feature Engineering, ETL (Extract Transform Load)
- · Agile, TDD (Test Driven Development), Continuous Integration, Object-Oriented Programming, Multi-Threading

Education & Others

Oregon State University (OSU)

Corvallis, Oregon Sept 2015 - June 2018

- **Degree:** Bachelor of Science in Electrical and Computer Engineering
- Related Courseworks: Operating System, Data Structure, Analysis of Algorithm, Distributed Systems, Machine Learning.

Volunteering

 Volunteered to mentor 100 students at Google Cloud Study Jam for hands on Machine Learning experiences using Google Cloud Platform.

Interest Area

 Backend Development, Machine Learning. Building highly scalable infrastructure, Working on cutting edge technology, Making cool things that change people's lives.