

# Chen, Liang-Yu (Fred)

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Taiwanese from Hsinchu City

## Education

### Hong Kong University of Science and Technology

*Bachelor of Engineering in Computer Science*

Graduation Date: August 2020

*Minor in Big Data Technology, General Business, and Humanities*

GGA: 3.59

**First Class Honors | 2019 Fall/2020 Spring Dean's List | One Year Admission Scholarship**

**Selected Courses:** Data Mining, Data Visualization, Java Programming, Software Engineering, Algorithm Analysis, Operating System, e-Business Management and Web Analytics

**Purdue University, West Lafayette** Computer Science Exchange Student

Jan 2019 – April 2019

## Work Experience

### D-Engraver Limited

**Hong Kong**

*CSO, Co-Founder*

July 2018 - April 2019

- Launched a start-up with several seniors and professors that aimed to build new decentralized applications
- Built a website with ReactJS and a cross-platform app with React Native on AliCloud
- Responsible for Data Visualization and database management
- Maintained Linux web servers using Express as the back-end and created APIs for our applications

### MediaTek Inc.

**Taiwan**

*Software Engineer Intern*

June 2019 - August 2019

- Worked as a software engineer who participated in digital image processing and hardware coding
- Built a log parser that can parse the Android main log and kernel log to useful information
- Created an image tool that can help transform the image from different formats and bit depths
- Wrote a python script to extract and compare plain register information from camera driver

## Research Experience

### Interpretable Attention Network and Interactive User Interface for Churn Prediction in LBSNs

*First Author*

*Feb 2020 – now, currently submitting to WWW*

- Designed and constructed deep attention network to predict churn behavior and interpret the prediction.
- Created the skeleton structure(React + D3.JS) of the Interactive User Interface.

### Final Year Project: A System for Predicting and Explaining Stock Price Prediction

*Project Leader*

*Sep 2019 – May2020*

- Built up machine learning(ex:XGBoost) and deep learning (ex:LSTM) models to forecast US stocks.
- Established backend and frontend application integrated with models to visualize prediction in real-time.

## Leadership & Activities

### MSSSUG, HKUST

**Hong Kong**

*IT Secretary*

Dec 2016 – Mar 2018

- Maintained the website of one of the largest undergraduate student societies in HKUST
- Built up 4 web applications for society events ranging from games, voting system to general websites

### HKUST x RADICA BigDatathon

**Hong Kong**

*Software Developer*

Dec 2017

- Acted as a software developer in the big data competition held by the university and leading tech company
- Won the champion and the best presentation award by competed with 36 teams from all over Hong Kong
- Collected data sets and built up a machine learning model using Python and explained our model to teammates

### HackUST

**Hong Kong**

*Software Developer*

April 2017

- Worked as a software developer in one of the largest hackathon throughout the greater Asia
- Won the 1<sup>st</sup> runner-up award by competing with more than 120 teams from all over the world

## Skills & Interests

- Technical:** C++, Java, Python, Docker, NodeJS, ReactJS, HTML/CSS/JavaScript, MYSQL, MongoDB
- Languages:** Fluent in English (TOEFL: 105) and native in Chinese