

Liang-Yu Chen (Fred)

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EDUCATION

PURDUE UNIVERSITY

Master of Science in Computer Science

West Lafayette, IN

Expected May 2023

- Courses: Data Mining, Database Systems, Computer Networks, Information Security, Algorithm Design

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor of Engineering in Computer Science; Minor in Big Data Technology

Hong Kong

Aug. 2020

- Courses: Software Engineering, Java Programming, Data Visualization, Algorithm Analysis, Operating System
- Awards: First Class Honors | 2 times Dean's List (Top 10% among all) | One Year Admission Scholarship

SKILLS AND KEYWORDS

Programming: (Proficient) Python, Java, HTML/CSS/JavaScript, C++ (Familiar) PHP, SQL, MATLAB, R

Framework: React.js, Vue.js, Node.js, D3.js, Keras, Scikit-learn, Express, Flask

System & Tool: Git, Linux, Docker, MongoDB, AWS, Google Firestore, Apache Hadoop/Spark, Tableau

PROFESSIONAL EXPERIENCE

MEDIA TEK INC.

Software Engineer Intern

TAIWAN

Jun. 2019 – Aug. 2019

- Implemented and replaced an internal tool which could transform images from multiple bit depths and formats
- Wrote scripts to extract plain register information from camera driver to facilitate raw image comparison
- Developed log parsers to help engineers debug kernel issues by parsing Android log into organized information
- Fixed 30+ code issues relating to digital image processing generated from Coverity

D-ENGRAVER LIMITED

Software Developer, Co-Founder

Hong Kong

Jul. 2018 – Apr. 2019

- Launched a startup to develop decentralized applications using Ethereum Solidity to record factory's production
- Constructed official website utilizing React.js and deployed it on Alibaba Cloud's Linux server using Express
- Established and tested RESTful APIs fetched by visualization webpages for 100,000+ data
- Generated tutorials to familiarize new software developers with essential technology stacks

SHAKEE LIMITED

Software Engineer

Hong Kong

Jun. 2017 – Jul. 2018

- Developed a cross platform application (FooPar) which provides food delivery services for university members
- Built 6+ pages of and components individually including carousel and number pad using React.js
- Involved in iOS application development by adjusting and deploying mobile application to App Store

RESEARCH AND PROJECT

INTERPRETABLE MODEL AND INTERACTIVE UI FOR CHURN PREDICTION IN LBSNS

Feb. 2020 – Aug. 2020

First Author

currently submitting to ASONAM

- Devised deep attention networks to support social network platforms predict and interpret user churning behavior
- Created interactive user interface with D3.JS to visualize user behavior from Yelp dataset of over 1.5 million users

FINAL YEAR PROJECT: A SYSTEM FOR PREDICTING AND EXPLAINING STOCK PRICE PREDICTION [[GitHub](#)]

- Crawled Google financial news and Yahoo stock market data to forecast S&P 500 Company's stock price

WEBSITE PROJECTS

Handmade Personal Website [[Website](#)] | Art Competition and Display Website [[Demo](#)]

D-Engraver Enterprise Website [[Demo](#)] | Society Singing Competition Website [[Demo](#)]

EXTRACURRICULAR

HKUST X RADICA BigDatathon

Dec. 2017

- Analyzed Godiva's retail sales using multilayer perceptron (MLP); Awarded 1st place and best presentation

HackUST

Apr. 2017

- Initiated a game combining Tetris and Block Breaker using GameMaker; Awarded 1st Runner-Up over 120+ teams

IT Secretary, MSSUG, HKUST

Dec. 2016 – Mar. 2018

- Established an online voting and discussing forum; Organized 20+ events and generated 4 web apps for members