

Liang-Yu (Fred) Chen

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EDUCATION

PURDUE UNIVERSITY

Master of Science in Computer Science

West Lafayette, IN

Expected Jan. 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, Business and Humanities

Hong Kong

Aug. 2020

- Courses: Data Mining, Data Visualization, Java Programming, Software Engineering, Algorithm Analysis, Operating System, e-Business Management and Web Analytics
- Awards: First Class Honors | Dean's List | One Year Admission Scholarship

SKILLS

Computing: C++, Python, JAVA, HTML/CSS/JavaScript, PHP, SQL, MATLAB, R

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

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

EXPERIENCE

MEDIA TEK INC.

Software Engineer Intern

TAIWAN

Jun. 2019 – Aug. 2019

- Involved in digital image processing and designed a tool which can transform images from different bit depths
- Wrote scripts to extract and compare plain register information from the camera driver
- Developed a log parser which can parse the Android main log and kernel log into organized information

D-ENGRAVER LIMITED

Software Developer, Co-Founder

Hong Kong

Jul. 2018 – Apr. 2019

- Launched the start-up with seniors and professors; Developed several decentralized applications
- Constructed and hosted the official website on Linux server with Alibaba Cloud; Created APIs for applications
- Lead and guided new software developers and assigned tasks according to their ability

SHAKEE LIMITED

Software Engineer

Hong Kong

Jun. 2017 – Jul. 2018

- Assisted in the establishment of a cross platform application (FooPar) using React.JS with Google Firebase

RESEARCH AND PROJECT

INTERPRETABLE MODEL AND INTERACTIVE UI FOR CHURN PREDICTION IN LBSNS

Feb. 2020 – Aug. 2020

First Author

Currently submitting to ASONAM

- Designed and constructed deep attention network to predict churn behavior and interpret the prediction
- Created an interactive user interface to visualize user behavior from Yelp dataset of over 1.5 million users

FYP: A SYSTEM FOR PREDICTING AND EXPLAINING STOCK PRICE PREDICTION

Sept. 2019 – May 2020

- Built up machine learning (XGBoost, LR, Decision Tree) and deep learning (LSTM) models to forecast US stocks
- Established backend and frontend application to visualize the prediction in real-time

WEBSITE PROJECTS

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

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

EXTRACURRICULAR

IT Secretary, MSSSUG, HKUST

Dec. 2016 – Mar. 2018

- Maintained and improved the society's official website; Built up 4 web applications for society events

Software Developer, HKUST X RADICA BigDatathon

Dec. 2017

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

ADDITIONAL INFORMATION

Languages: English(fluent), Mandarin(fluent)

Interests: Rock Climbing