

# Liang-Yu Chen (Fred)

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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: Java Programming, Data Visualization, Software Engineering, Algorithm Analysis, Operating System, Social Information Network Analysis
- 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

## PROFESSIONAL EXPERIENCE

### MEDIA TEK INC.

#### Software Engineer Intern

TAIWAN

Jun. 2019 – Aug. 2019

- Implemented tool to transform and display images from multiple formats and bit depths
- Wrote scripts to extract plain register information from camera driver to facilitate raw image comparison
- Developed log parser to parse Android main log and kernel log into organized information
- Participated in digital image processing; Fixed 30+ code defects and issues generated from Coverity.

### D-ENGRAVER LIMITED

#### Software Developer, Co-Founder

Hong Kong

Jul. 2018 – Apr. 2019

- Launched start-up to develop decentralized application that helps recording and verifying factory's production
- Constructed official website utilizing React JS and deployed it on Alibaba Cloud's Linux server using Express JS
- Designed visualization webpage for 100,000+ data; Created and tested RESTful APIs to transform data
- Mentored 3 new software developers to familiarize essential technology stacks and assigned tasks accordingly

### SHAKEE LIMITED

#### Software Engineer

Hong Kong

Jun. 2017 – Jul. 2018

- Developed cross platform application (FooPar) which provides food delivery services for university members
- Built 6+ pages and components individually including carousel and number pad using React JS
- Involved in IOS application development; Adjusted and deployed mobile application to the App Store
- Became project manager that led and guided team built up with new employed software developers

## 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 help 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

## WEBSITE PROJECTS

Personal Website ([Website](#))

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

D-Engraver Enterprise Website ([Demo](#))

| Society Singing Competition Website ([Demo](#))

## EXTRACURRICULAR

### Software Developer, HKUST X RADICA BigDatathon

Dec. 2017

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

### Software Engineer, HackUST

Apr. 2017

- Initiated game combining Tetris and Block Breaker with GameMaker; Awarded 1<sup>st</sup> Runner-Up over 120+ teams

### IT Secretary, MSSUG, HKUST

Dec. 2016 – Mar. 2018

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