Liang-Yu (Fred) Chen

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EDUCATION

PURDUE UNIVERSITY   **West Lafayette, IN**
Master of Science in Computer Science   **Expected Jan. 2023**
- Courses: Data Mining, Database Systems, Computer Networks, Information Security, Algorithm Design

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY   **Hong Kong**
Bachelor of Engineering in Computer Science; Minor in Big Data, Business and Humanities   **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

MEDIATEK INC.   **TAIWAN**
Software Engineer Intern   **Jun. 2019 – Aug. 2019**
- Involved in digital image processing and designed a tool which can transform images from all 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   **Hong Kong**
Software Developer, Co-Founder   **Jul. 2018 – Apr. 2019**
- Launched a start-up with seniors and professors to developed innovative decentralized applications
- Designed visualization webpages for 100,000+ data; Constructed and manage the official website on Linux server
- Lead and guided more than 3 new software developers and assigned tasks according to their ability

SHAKEE LIMITED   **Hong Kong**
Software Engineer   **Jun. 2017 – Jul. 2018**
- Assisted in developing a food delivery platform(FooPar); Built more than 6 pages and components individually

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