MING-YI (ERIC) LIN

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I'm expected to graduate in May 2020 and currently looking for a front-end developer position

EDUCATION

M.S. in Data Informatics, University of Southern California *Aug 2018 – Present*
GPA: 4.0/4.0

M.B.A. in Information Management, National Central University *Sept 2012 – July 2014*
GPA: 4.0/4.0

B.B.A. in Information Management, Tatung University *Sept 2008 – July 2012*
GPA: 3.7/4.0

WORK EXPERIENCE

Front-end Developer (Student Worker) *May 2019 – Present*
Information Sciences Institute – Los Angeles, United States

Deployed an opensource web-based viewer for high-resolution zoomable biological images. The following is the contribution I made during summer :

- **Chaise Viewer Application** JavaScript, D3, AngularJS, Openseadragon
  - Developed an annotation feature that can accurately overlay the drawn annotation of biological structures SVG output by the software Stereo Investigator
  - Developed highlight, locating and drawing annotation features on biological images
  - Created documentation on its URL parameters, input examples and their usage

Front-end Engineer *October 2014 – July 2018*
Chunghwa Telecom Laboratories – Taoyuan, Taiwan

Built and maintained single-page applications that let users efficiently manage their IoT equipment or perform visualization tasks. Here are some of my achievements:

- **GIS Dashboard System** C#, JavaScript, jQuery, MQTT
  - Integrated the open data for end-users to perform charts visualization
  - Implemented customizable widgets for users to interact between data and geomap
  - Collaborated with back-end team to fetch real-time unresolved cases/open data from different government departments
  - Reduced the loading greatly between the application and the server using publish/subscribe message-oriented architecture

- **Automated Graphical System** C#, JavaScript, jQuery, Node.js, MQTT
  - Refactored the existing Silverlight application into using purely JavaScript
  - Built a design interface to edit how to present IoT equipment through flexible layout
  - Built a deployment interface to automatically monitor/control IoT equipment and it has saved **15%** energy consumption of a client's premises since 2016
  - Developed a server to fetch equipment status via MQTT broker and applications

- **IoT Equipment iOS App** ReactNative, Node.js, MQTT
  - Built cross-system mobile app for monitoring up to 50,000 pieces of IoT equipment, ensured smooth in switching interface to interface

SCHOOL PROJECTS

Oriole - Pitch Detector Python, JavaScript, React.js, Firebase *2018*

- Built a website to search/filter songs based on users' vocal range
- Extracted music's metadata/pitch and stored into NoSQL database
- Developed detecting pitch/faceted search functions for retrieving music

SKILLS

Front End :
JavaScript, jQuery, HTML5, CSS3, D3 Openseadragon. React, Angular

Back End :
Python, Scala, MySQL, MongoDB , Firebase, MQTT

Machine Learning :
Apache Spark, MapReduce, sckit-learn, PySpark

Developer Tools :
GIT, npm

COURSEWORK

Algorithms

Data Structures

Data Mining

Data Management

Database Management

Information Modeling

Information Visualization

Interaction Design and Usability Testing

Software Engineering

Software Processes

Machine Learning

Website Design