MING-YI (ERIC) LIN

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I'm expected to graduate in Fall 2020 and currently looking for a software engineer 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 — September 2012 – July 2014
GPA: 4.0/4.0

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

WORK EXPERIENCE

Teaching Assistant (Course Producer) — January 2018 – Present
USC Viterbi School of Engineering – Los Angeles, United States

Help the professor with students evaluation and assignments and provide assistance for students with their questions and web projects

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

Focused on developing/maintaining single-page applications including user interfaces, application features and application performance. Here are some of my achievements:

- GIS Dashboard System `C#, JavaScript, jQuery, HTML5, CSS3`
  - Acquired and refined client specifications on interface/interactive features/visualization efficiently using mockup to focus on structure and content
  - Collaborated with back-end team to fetch real-time unresolved cases/open data from different government departments
  - Constructed a system for integrating, analyzing, and visualizing open data into interactable, customizable widgets for government agencies
- Automated Graphical System `C#, JavaScript, jQuery, Node.js, MQTT, HTML5, CSS3`
  - 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, HTML5, CSS3, 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

Customized E-Book system `Java, JavaScript, jQuery Mobile, HTML5, CSS3` — 2013, 2014
- Built a web system to allow professors/students to effectively upload course material, response to questions and lookup technical words

Flashcard Learning System `Java, JavaScript, jQuery Mobile, HTML5, CSS3` — 2012, 2013
- Created an application to help students learn English efficiently with features like learning strategies, flashcards, and vocabulary tests

SKILLS

Languages :
C#, JavaScript, Python, Scala, SQL/NoSQL

Web Development :
AJAX, Bootstrap, jQuery, CSS3, HTML5, React, ReactNative, d3.js, HighChart.js, Restful API

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

Frameworks/Tools :
AWS, GIT, MQTT Broker

Databases:
Firebase, MS SQL, MySQL, MongoDB, Redis

COURSEWORK

Algorithms
Data Structures
Data Mining
Data Management
Database Management
Information Modeling
Software Engineering
Software Processes
Machine Learning
Website Design