MING-YI (ERIC) LIN

USC M.S in Data Science (class of 2020) | 4 years frontend experience

I'm expected to graduate in May 2020 and currently seeking a full-time software engineer position

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WORK EXPERIENCE

May 2019 – Oct 2019

Student Worker
Information Sciences Institute — Los Angeles, United States

Deployed an open-source, web-based viewer using AngularJS for high-resolution zoomable microscopic images

Developed from scratch a feature that precisely overlays annotations (SVG files) over an image

Developed highlighting, locating and drawing features using D3.js for users to annotate the microscopic image

Jan 2019 – May 2019

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

Helped the professor with students evaluation and assignments and provided assistance for 50 students with their questions and web application projects

Oct 2014 - July 2018

Frontend Engineer
Chunghwa Telecom Laboratories — Taiwan

Built and maintained single-page applications using JavaScript and jQuery that let users efficiently manage IoT equipment and perform visualization tasks

Developed an auto-control IoT equipment feature which has saved 15% energy consumption of a client's premises since 2016

Built cross-system mobile app using ReactNative for monitoring up to 50,000 pieces of IoT equipment

Reduced the loading between the application and the server using publish/subscribe message-oriented architecture

PROJECTS

Oct 2018 - Jan 2019

LA Metro Bike Data Visualization

Developed a map-based dashboard application using Angular to help metro bike shareholders analyze bike usage performance

Built interactive map and up to 6 types of statistic charts using D3.js and MapBox to allow users to get an overview of inbound and outbound analysis

Oct 2018 - Jan 2019

Pot of Cha - User interface Design and Usability Testing

Conducted 10+ user interviews to find primary persona and generalized user stories, goal-directed user scenario and user cases

Built sitemap, wireframes, visual design and prototypes for both desktop and mobile version using Sketch and Principle

Evaluated/Revised the prototype by conducting usability testing for +5 users

Oct 2018 - Jan 2019

Oriole - Pitch Detector

Built a website using React 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

EDUCATION

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

Sep 2012 – Jul 2014   **National Central University,** M.B.A. in Information Management | GPA : 4.0 / 4.0

Sep 2008 – Jul 2012   **Tatung University,** B.B.A. in Information Management | GPA : 3.7 / 4.0

SKILLS

PROTOTYPE
- Sketch
- Principle

FRONT END
- Javascript
- HTML5
- CSS3
- D3.js
- Angular
- React
- jQuery
- Bootstrap

BACK END
- Python
- Scala
- Spark
- MapReduce
- MySQL
- Firebase
- MQTT

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