Melanie Kwon, MSCS

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LANGUAGES

ADVANCED: Python, Javascript (ES6), Java
INTERMED.:   SQL, CSS, VBA
BASIC: C++, R, Haskell

SKILLS

SOFTWARE DEVELOPMENT

Experience with modern version control systems (git), Familiarity with AWS, Agile project management

FULL-STACK WEB AND MOBILE APP DEVELOPMENT

FRONT-END: Bootstrap, JQuery, AJAX, Sass, Angular
BACK-END: NodeJS, Express, MongoDB
TOOLS: NPM scripts, Webpack
TESTING: Mocha, Jasmine, Karma, Protractor
MOBILE: Ionic/Cordova, Nativescript

DATABASE EXPERIENCE

MS SQL Server, MySQL, PostgreSQL, SQLite, MongoDB

DATA SCIENCE / MACHINE LEARNING

Excel, Numpy, Pandas, TensorFlow, Scikit-Learn (*Clustering, Classification, Regression, SVM, Decision Trees, Ensemble Learning/Random Forests, Dimensionality Reduction, ANNs)*

COMMUNITY INVOLVEMENT

Member – JavascriptLA

Member – Association for Computing Machinery

Member – Data Science Research Lab (CSULA)

EDUCATION

M.S., Computer Science, CSULA, pending Spring 2018

B.A., Political Science, UCLA, 2010

EXPERIENCE

KAISER PERMANENTE – DEPARTMENT OF RESEARCH AND EVALUATION   Los Angeles, CA
Operations Analyst / Programmer   2015 - 2017
- Provide project and logistical support for operations/I.T. staff/administrators/research scientists.
- Experience writing efficient stored procedures and views in MS SQL Server. Coded decision support applications and automated reports in VBA/Excel/Access/SQLServer (Space Management Planning Tool, Grant Projection Tool).
- Sharepoint 2013 site administration/creation, content management, and custom UI/front-end development work.

MERCURY INSURANCE GROUP   Brea, CA
Business Systems Analyst   2015
- Liaison between business and project team. Capture business requirements and translate them to complete functional requirements for developers. Review requirements with QA and send UAT Approval requests.
- Facilitate online meetings to assess project scope, gather estimates, determine dependencies to coordinate integration, check project status to meet multiple upcoming deadlines, and overcome project blockers.

WOMEN IN COMPUTING   Long Beach, CA
Front-End Web Developer   2013 – 2014
- Front-end development in HTML5, CSS3, JQuery, and WordPress CMS. Site administration and maintenance.

CHILDRENS HOSPITAL LOS ANGELES   Los Angeles, CA
Project Coordinator   2011 – 2012
- Plan and coordinate logistics for hospital-wide organizational effectiveness workshop for over 4000 CHLA employees, USC faculty, and PMG staff. Project and analytical support for Organizational Effectiveness department.

FEATURED PROJECTS

Applied Deep Learning for Diagnosing Cervical Cytology *(Thesis project advised by M. Pourhomayoun, Ph.D.)*

Research project manager for collaborative study with pathologists of LAC+USC/Keck Hospital to assess the diagnostic accuracy of convolutional neural networks trained on whole slide scanned cytology images.

K Star Cafe – Web & mobile apps featuring a café/restaurant written in different stacks.
- K-Star-Cafe-Angular: **Single page application** written in **Angular5, Material, and Flex-Layout**.
- K-Star-Cafe-IonicCordova: **Hybrid mobile application** written in **Angular, Ionic/Cordova**.
- K-Star-Cafe-Nativescript: **Cross-platform native mobile application** written in **Nativescript**.
- K-Star-Cafe-RESTAPI: **REST API** written in **Express, MongoDB** & **Mongoose**. Serves data to above apps.