Melanie Kwon, MSCS

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LANGUAGES

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

SKILLS

SOFTWARE DEVELOPMENT

Version Control/Git, Familiarity with Linux/Unix, TDD, Agile project management, Business Analysis

DATABASE EXPERIENCE

SQL Server, MySQL, PostgreSQL, SQLite, MS Access

DATA SCIENCE / MACHINE LEARNING

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

WEB DEVELOPMENT

Node.js, Angular.js, JQuery, AJAX, Maven, Spring, Hibernate, Bootstrap, Material Design, Sass, Adobe Photoshop/Illustrator

COMMUNITY INVOLVEMENT

Volunteer – SoCal Data Science Conference 2017

Member – Association for Computing Machinery

Member – Data Science Research Group (CSULA)

EDUCATION

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

B.A., Political Science, UCLA, 2010

Deep Learning Specialization from deeplearning.ai on Coursera. Certificates completed Aug-Sept, 2017
  - Neural Networks and Deep Learning
  - Improving Deep Neural Networks: Hyperparameter tuning, Regularization & Optimization
  - Structuring Machine Learning Projects

EXPERIENCE

KAISER PERMANENTE – DEPARTMENT OF RESEARCH AND EVALUATION · Los Angeles, CA

Operations Analyst / Programmer · 2015 - 2017

- Provide project and logistical support for research staff/administrators/scientists, and established a new departmental Project Management Office to champion and lead Lean Six Sigma process improvement initiatives.
- Coded decision support applications and automated reports in VBA/Excel/Access/SQLServer (Space Management Planning Tool, Grant Projection Tool). Experience writing efficient stored procedures and views in MS SQL Server.
- 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.

Rover Swarm Simulation (Java, Node.js)

[Team of 4] Robot swarm A.I. competition. Implemented A* pathfinding algorithm and RESTful API server to communicate with other Rover teams.