

RONALD KWAN

Email rkwan@berkeley.edu **Phone** (510) 552-7837 **Website** <http://rkwan.me/>
Objective Full-time role in software engineering or data science starting in summer or fall 2016.
Main Skills Python, Java, JavaScript, MATLAB, R, SQL, \LaTeX

EDUCATION

UC Berkeley (Berkeley, CA) *Graduation:* 05/2016
B.A. Computer Science, Mathematics, and Statistics *GPA:* 3.63 (cumulative), 3.91 (CS)
Select Technical Coursework (*Current coursework in italics.*) 1xx: upper division, 2xx: graduate.
CS Core Algorithms (CS 170/270), Operating Systems (CS 162), Database Systems (CS 186)
AI & Statistics AI/Machine Learning (CS 188/189/Stat C241A), Probability/Statistics (Stat 134/135)
Applied Math Linear Algebra/Optimization (Math H110/EE 127), *Numerical Analysis (Math 128A)*

EXPERIENCE

Internships

Qualcomm Inc. (Boulder, CO) **Engineering Intern** 06/2013 – 08/2013
Improved cross-platform compatibility for OS libraries, replacing hardcoded settings with configuration files. [C]
Sandia National Labs (Livermore, CA) **Technical Intern** 06/2012 – 08/2012
Ensured data integrity and authenticity, by integrating digital signatures into simulation software. [Java]

Student Organizations and Related Projects

Atomic Grader **Software Developer** 12/2015 – *present*
Web app for efficient crowdsourced online exam grading. [JavaScript, Meteor, React] (<http://atomicgrader.com>)
The Daily Californian **Projects Developer** 09/2015 – *present*
Data journalism for the student newspaper, focusing on data analysis and web applications. [Python, Django]
Berkeley Math Tournament **Chief Technology Officer** 09/2012 – *present*
Lead developer of web apps supporting K-12 math contests. [Python, Django] (<http://bmt.berkeley.edu>)

Research

UC Berkeley (Berkeley, CA) 01/2015 – 12/2015
Modeling and simulations of optimistic agents in Markov decision processes. *Supervisor:* Tom Griffiths
Carnegie Mellon University (Pittsburgh, PA) 05/2015 – 07/2015
Detecting activity clusters in brain images, using machine learning for network analysis. *Supervisor:* Cosma Shalizi
Georgia State University (Atlanta, GA) 05/2014 – 07/2014
Development of an ensemble classification algorithm with multiobjective optimization. *Supervisor:* Robert Harrison

University Service

UC Berkeley (Department of EECS) **Computer Science Peer Advisor** 09/2014 – 12/2015
Advising students on academic and logistical issues related to the computer science program at UC Berkeley.
UC Berkeley (Department of EECS) **Reader/Tutor/Lab Assistant** 02/2014 – 12/2015
Grading and tutoring for CS 61A (introductory CS), CS 70 (discrete math and probability), and CS 161 (security).

PROJECTS

Data Blogging/Journalism [Python (SciPy stack), R]
Grade Distributions Comparisons between departments and lower/upper division classes at UC Berkeley.
(<http://projects.dailycal.org/grades>)
(<http://rkwan.me/blog/ucb-grade-distributions>)
Admissions Statistics Analysis of admissions for EECS and CS freshman applicants to UC Berkeley.
(<http://rkwan.me/blog/ucb-eeecs-lscs-admissions>)

Web Development

Python [Flask, Django] Web scraping, APIs, and cleaner interfaces for data (mainly education-related).
JavaScript [node.js] 4! (a small game) and BRISTool (a batch reverse image search tool)