

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 summer 2016.
Skills Python, Java, C, JavaScript, MATLAB, R, SQL, L^AT_EX

EDUCATION

UC Berkeley (Berkeley, CA) *Graduation:* 05/2016
B.A. Computer Science, Mathematics, and Statistics *GPA:* 3.65 (cumulative), 3.90 (CS)
Technical Coursework Current coursework in *italics*. 1xx: upper division, 2xx: graduate.

CS: Systems	CS: Theory/AI	Mathematics & Statistics
Operating Systems (CS 162)	Algorithms (CS 170/270)	Probability/Statistics (Stat 134/135)
Compilers (CS 164)	Artificial Intelligence (CS 188)	<i>Linear Modelling (Stat 151A)</i>
<i>Database Systems (CS 186)</i>	Machine Learning (CS 189/Stat C241A)	Linear Algebra (Math H110)

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]		

Research

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

Student Organizations

The Daily Californian	Projects Developer	09/2015 – <i>present</i>
Data journalism for the student newspaper, focusing on data analysis and web applications. [Python, Django]		
Berkeley Math Tournament	Chief Technology Officer	09/2012 – <i>present</i>
Leading development of web applications supporting K-12 math contests. [Python, Django] (bmt.berkeley.edu)		

University Service

UC Berkeley (Department of EECS)	Computer Science Peer Advisor	09/2014 – <i>present</i>
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 – <i>present</i>
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]

Admissions Statistics	Analysis of admissions for EECS and CS freshman applicants to UC Berkeley.
Grade Distributions	Comparisons for departments and lower/upper division classes at UC Berkeley.

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)

Coursework

KVStore (CS 162)	Java	Distributed key-value store with two-phase commit.
apyc (CS 164)	C++	"A PYthon Compiler", translating a dialect of Python into C++.