RONALD KWAN

Email ronaldskwan@gmail.com Website http://rkwan.me Main Tools Python, JavaScript, R, SQL, LATEX **EDUCATION** UC Berkeley (Berkeley, CA) Graduated: 05/2016 B.A. Computer Science, Mathematics, and Statistics GPA: 3.66 (cumulative), 3.91 (CS) Select Technical Coursework 1xx: upper division, 2xx: graduate. Data Structures & Algorithms (CS 61B/170/270), Operating Systems (CS 162), Databases (CS 186) CS Core Artificial Intelligence (CS 188), Machine Learning (CS 189, Stat C241A), Optimization (EE 127) AI & ML Statistical Computing (Stat 133), Probability & Statistics (Stat 134/135), Linear Models (Stat 151A) **Statistics** WORK EXPERIENCE PrepScholar (Cambridge, MA) Full Stack Engineer 09/2016 - present Feature development and maintenance for Django and Backbone apps backed by MySQL. Python, JS, SQL 06/2013 - 08/2013 Qualcomm Inc. (Boulder, CO) **Engineering Intern** Furthered adoption of OS libraries by replacing hardcoded settings with configuration files. Sandia National Labs (Livermore, CA) Technical Intern 06/2012 - 08/2012 Ensured data integrity and authenticity by adding digital signatures to simulation software. Java BERKELEY MATH TOURNAMENT **Technology Consultant** 09/2012 - present Berkeley Math Tournament (BMT) Lead software developer for biannual K-12 math contests attracting 350-500+ students/year. **Projects** Atomic Grader 12/2015 - *present* http://atomicgrader.com Parallelizes exam grading by splitting scanned exams into "atomic" problem answers. Python, JS (React) BMT Web App Suite http://bmt.berkeley.edu 09/2012 - present Tools for math contests: registration (public) and problem writing/grading (staff). Python (Django) DATA JOURNALISM The Daily Californian (DC) **Projects Developer** 09/2015 - 05/2016 Data analysis/visualization and web development for the UC Berkeley student newspaper. **Projects** Grade Distributions (DC) http://projects.dailycal.org/grades 09/2015 - 11/2015 Data visualization for comparing average grades between departments and disciplines. Python, IS http://rkwan.me/blog/ucb-eecs-lscs-admissions Admissions Trends (Blog) 07/2015 Investigation of admissions trends for EECS and CS freshman applicants to UC Berkeley. Python, R ACADEMIC RESEARCH UC Berkeley (Berkeley, CA) Supervisor: Tom Griffiths 01/2015 - 12/2015 Models & simulations of optimistic/pessimistic AI agents in Markov decision processes. Python (NumPy) Carnegie Mellon University (Pittsburgh, PA) Supervisor: Cosma Shalizi 05/2015 - 07/2015 Detecting activity clusters in fMRI brain images with machine learning & network analysis. Python (NumPy)

Supervisor: Robert Harrison

Development of an ensemble classification algorithm with multiobjective optimization.

Georgia State University (Atlanta, GA)

05/2014 - 07/2014

Python (NumPy)