RONALD KWAN

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Objective Full-time role in software engineering or data science starting summer 2016.

Skills Python, Java, C, JavaScript, MATLAB, R, SQL, LATEX

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**

Algorithms (CS 170/270) Operating Systems (CS 162) Probability/Statistics (Stat 134/135)

Compilers (CS 164) AI/Machine Learning (CS 188/189/281A) Linear Modelling (Stat 151A) Database Systems (CS 186) Deep Reinforcement Learning (CS 294) 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]

06/2012 - 08/2012Sandia National Labs (Livermore, CA) **Technical Intern**

Ensured data integrity and authenticity, by integrating digital signatures into simulation software. [Java]

Research

UC Berkeley (Berkeley, CA) 01/2015 - present

Modeling and simulations of optimistic agents in Markov decision processes. Supervisor: Tom Griffiths

05/2015 - 07/2015Carnegie Mellon University (Pittsburgh, PA)

Detecting activity clusters in brain images, using machine learning for network analysis. Supervisor: Cosma Shalizi Georgia State University (Atlanta, GA) 05/2014 - 07/2014

Supervisor: Robert Harrison

Development of an ensemble classification algorithm with multiobjective optimization.

Student Organizations

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

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 - present

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 - present

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) "A PYthon Compiler", translating a dialect of Python into C++. C++