RONALD KWAN

Email ronaldskwan@gmail.com Website http://rkwan.me

Main Tools Python, JavaScript, SQL

EDUCATION

University of Chicago (Chicago, IL) Expected Graduation: 06/2021

M.S. Computational Analysis and Public Policy

Select Coursework

Public Policy Microeconomics I, Analytical Politics, Urban Economics and Policy

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.

CS Core Data Structures & Algorithms (CS 61B/170/270), Operating Systems (CS 162), Databases (CS 186)

AI & ML Artificial Intelligence (CS 188), Machine Learning (CS 189, Stat C241A), Optimization (EE 127)

Statistics Statistical Computing (Stat 133), Probability & Statistics (Stat 134/135), Linear Models (Stat 151A)

WORK EXPERIENCE

PrepScholar (Cambridge, MA)	Senior Full Stack Engineer	09/2016 – <i>present</i>
Advancing educational web tools with Djan	ngo (backend), Backbone (frontend), and MySQL.	Python, JS, SQL
Qualcomm Inc. (Boulder, CO)	Engineering Intern	06/2013 - 08/2013
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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

MATH TOURNAMENTS

ASDAN Math Tournament (AMT) Technology Consultant 09/2012 – 08/2018

Berkeley Math Tournament (BMT)

Software developer for K-12 math contests attracting 1000+ students/year.

Projects

Atomic Grader	http://atomicgrader.com	12/2015 - 08/2018
Parallelizes exam grading by splitting scanned exams into "atomic" problem answers.		Python, JS (React)
BMT Web App Suite	http://bmt.berkeley.edu	09/2012 - 05/2018
Tools for math contests: registration (public) and problem writing/grading (staff).		Python (Django)

DATA JOURNALISM

Grade Viz (Daily Cal)	http://projects.dailycal.org/grades	09/2015 - 11/2015
Data visualization for comparing average grades between departments and disciplines.		Python, JS
Admissions Trends (Blog)	http://rkwan.me/blog/ucb-eecs-lscs-admissions	07/2015
Investigation of admissions trend	Python, R	

ACADEMIC RESEARCH

UC Berkeley (Berkeley, CA)	Supervisor: Tom Griffiths	01/2015 - 12/2015
Models & simulations of optimistic/pessimistic A	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	Python (NumPy)	
Georgia State University (Atlanta, GA)	Supervisor: Robert Harrison	05/2014 - 07/2014
Development of an ensemble classification algorit	Python (NumPy)	