

Nick Titterton

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Education

University of California, Berkeley

Fall 2015 - Spring 2019

Computer Science

CS GPA: **3.64**

Courses I've enjoyed: CS 61B - Data Structures (A), CS 70 - Discrete Math and Probability (A), CS 170 - Algorithms (A)

Experience

CS70 Coordinator, Computer Science Mentors

Fall 2016 - ongoing

Mentored CS 61A and CS 70 students in a small group setting on class concepts. Collaborated with fellow mentors to create teaching content and learn teaching methods. Mentored other mentors and led meetings

Undergraduate Student Instructor, CS 170

Fall 2017 - ongoing

Taught students in section, wrote questions for exams, graded exams, facilitated office hours and homework parties, and coordinated with other staff.

Data Analysis Intern, CompassData Inc.

Summer 2016

Identified and mapped Ground Control Points using Google Earth; interacted with and added to a large database of orthoimagery.

Software Engineering Intern, ServiceNow

Summer 2018

Developed software for the Product Team at ServiceNow. More details TBD.

Projects

Reddit Bot

Wrote, tested, and deployed a reddit bot using Python Reddit API Wrapper (PRAW) and OAuth2.

SDP Max Cut Approximator

Wrote and tested a randomized 0.5-approximation, derandomized greedy 0.5-approximation, and semidefinite programming relaxation 0.879-approximation of the MAX CUT problem using cvxpy and numpy.

Parallellized Image Compressor

Used PySpark, CV2, numpy, and scipy to implement parallelized image compression w/ DCT, blocking, quantization (CS61C).

Skills

Languages

Proficient: Python (numpy, scipy, cvxpy, TensorFlow), Java

Familiar: SQL, HTML, CSS, Objective-C, C, MIPS, Scheme

Tools

Terminal, Git, Sublime Text, IntelliJ, XCode, emacs, LaTeX (TeXWorks)