

Steven Traversi

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<http://steven.education>

Education

University of California, Berkeley – 3.56 GPA
Computer Science – 2017

Experience

Undergraduate Student Instructor for CS10 at UC Berkeley (fa14 – present)
I teach 1 discussion section and 2 labs per week, and hold office hours. Topics include introductory algorithms and algorithmic complexity, higher order functions, and Python.

TA in Training for CS10 at UC Berkeley (sp14)
Wrote discussion section material and taught 15 minutes of discussion per week. Conducted review sessions, Python. Assisted in labs 4 hours per week.

Exploratorium Teacher Institute CalTeach Intern (su14) Volunteer (su13)
DIY inexpensive loudspeaker for use by the Institute. Taught a class on the building and physics of speakers. Commissioned for and successfully developed a cost-effective refractometer for continued use by the Institute.

Projects

Personal Website (<http://steven.education>)
Wrote a website from scratch. Pages exhibit HTML5, CSS3, JQuery work.

Website for CS10 Practice (<http://steven.education/cs10>)
A site for use by CS10 students to further their knowledge of class topics.

Graph Library with Trip Planner
Implemented the graph data structure in Java, with a route-finding client that finds the shortest path between points given thousands of cities and roads.

KJumping Cube
Created the game KJumping Cube in Java with a GUI and devastating AI.

Command Line To-Do List
A Python-based to-do list application that runs from the command line.

Class Work

Structure and Interpretation of Computer Programs, Data Structures (A+)
Discrete Mathematics and Probability Theory (A)
Error-Correcting Codes, Hashing, Public Key Cryptography, Random Variables

Snap! Development Decal
Anti-cheating scheme with hashed dates in exported project XML.

Human Centered Design Decal
Learned HCD through the creation of a command line to-do list application.

Skills

Proficient in: Java, Python, CSS3, HTML5
Currently Learning: Swift, Objective-C, JavaScript, JQuery, C