

Steven C. Ho

SOFTWARE ENGINEER · LINGUIST · INSTRUCTOR

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Education

University of California, Berkeley

Graduating May 2018

COMPUTER SCIENCE AND LINGUISTICS DOUBLE MAJOR

- GPA: 3.81
- Regents' and Chancellors' Scholar (awarded to the top 1.5% of Berkeley's admitted class)
- Upsilon Pi Epsilon — Computer Science Honor Society (top 1/3 of declared CS majors)

Experience

Teaching Assistant (TA)

CS 188: ARTIFICIAL INTELLIGENCE

Jan. 2018 - May 2018

- Prepare for and hold weekly discussion sections and office hours; moderate course Q&A forum
- Record weekly video walkthroughs of discussion worksheet, requiring hours of preparation, filming, and editing
- Develop Pacman-inspired projects teaching probabilistic models, online and offline learning algorithms, and machine learning

Head TA

CS 61C: MACHINE STRUCTURES

Aug. 2017 - Dec. 2017

- Maintain and improve legacy project code, the course website, and scripts for managing grades
- Develop two autograded coding projects (Trie/Ternary Search Trees, Yelp Dataset Linear Classifier) in C and Apache Spark, respectively
- Lead weekly staff meetings, act as conduit between professors and staff, ensure quality of course staff and overall learning experience

CS 61C Instructor

June - Aug. of 2017, 2018

- Prepare for and present lectures twice a week for 200 students
- Organize course logistics and content, learning goals; direct team of TAs and tutors
- Develop Slack chat bot that allowed for staff to check off labs in real-time on mobile devices

CS 61C TA

June 2016 - June 2017

- Hold weekly discussion section, lab, and office hours and lead review sessions
- Design testing scripts and manage project, lab, and discussion material
- Create exam questions, proctor, and grade exams, homework and labs

Webmaster

REGENTS' AND CHANCELLORS' SCHOLARS ASSOCIATION

Aug. 2014 - May 2016

- Develop and manage website for our organization's yearly conference, using HTML, CSS, and JavaScript

Projects

CourseQuestionBank

COURSE PROJECT

Fall 2017

- Optimize backend database using Ruby on Rails & JavaScript (AJAX)
- Migrate from Solr to Elastic Search
- Follow MVC pattern and use RESTful API on team of 5

PintOS

COURSE PROJECT

Fall 2017

- Develop uniprocessor OS in team of 3
- Implement:
 - thread pools and scheduling
 - user programs and protection
 - growable file system & buffer cache

Syntactic Parser

PERSONAL PROJECT

Nov. 2017 - Present

- Parses English sentences, outputting syntax trees consistent with contemporary Minimalist syntactic theory
- Models sentence as binary tree whose nodes hold syntactic info





Coursework

Machine Learning
Artificial Intelligence
Natural Language Processing
Language & Computation




Algorithms
Databases
Computer Security
Operating Systems

Languages

 Python
 C
 Java
 SQL

 LaTeX
 Go
 Ruby
 HTML/CSS

Tools

 Git
 Vim
 Rails
 Spark