

# Christopher Yuhai Zhang

2230 Haste Street #109, Berkeley, CA  
(510) 402-3585

chris.zhang@berkeley.edu  
www.chriszhang.xyz

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## EDUCATION

<b>University of California, Berkeley</b>	May 2018
B.S., Electrical Engineering & Computer Sciences	GPA: 3.23
<b>Mission San Jose High School, Fremont, CA</b>	June 2014
	GPA: 3.80

## RELEVANT COURSEWORK

Data Structures and Programming Methodology, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Structure and Interpretation of Systems and Signals, Introduction to Microelectronic Circuits (In Progress), Great Ideas in Computer Architecture (In Progress), Introduction to Artificial Intelligence (In Progress)

## PROJECTS

<b>Personal Website</b>	August 2015
• Strengthened understanding of web development with the Bootstrap 3 framework and HTML/CSS	
<b>Sliding Block Puzzle</b>	August 2015
• Utilized breadth first search and Manhattan distance heuristic to solve sliding block puzzles efficiently	
<b>Gitlet</b>	July 2015
• A simpler version of Git including many of its local commands such as commit, branch, merge, etc	
• Implemented a practical application of trees, hash maps, and serialization	
<b>Word Clock</b>	June 2015
• Built a barebones “Arduino” board with ATmega microcontroller, shift registers, and driver ICs to keep track of time and light up the correct sequence of LEDs on the clock face	

## EXPERIENCE

<b>Research Intern, <i>Combustion Analysis Lab</i>, Berkeley, CA</b>	July—August 2013
• Interned under Professor Robert Dibble to obtain data on the performance of a homogeneous charge compression ignition engine using different fuels at varying temperatures	
• Operated a Horiba gas analyzer to monitor the levels of oxygen and pollutants in the engine’s exhaust gas	
<b>Badminton Coach, <i>United Badminton Club</i>, Fremont, CA</b>	Summer 2011—2014
• Instructed and led summer programs, training students how to compete at the national level	
• Developed vital communication skills to organize and instruct students effectively	
• Former captain of United Badminton Club’s elite team	
<b>Private Tutor, Fremont, CA</b>	September 2013—August 2014
• Taught AP Physics and honors level mathematics to high school students	
• Facilitated understanding of complex ideas and expedited students’ learning processes through individualized lectures and problem sets	
<b>Service Volunteer, <i>Washington Hospital Healthcare System</i>, Fremont, CA</b>	April—December 2013
• Served as a liaison between the patients, visitors, and hospital staff at the lobby desk	
• Assisted visitors and transported confidential documents and pharmaceuticals	

## ACTIVITIES

<b>Equipment Manager, <i>Cal Badminton</i></b>	June 2015—Present
• Reached out to other businesses to make sure the equipment needs of the club are met	
• Represented UC Berkeley in competitive events against other universities as well as in the Intercollegiate National Tournament where UC Berkeley won first place in 2015	
<b>Lab Assistant, <i>Data Structures and Programming Methodology</i></b>	August 2015—Present
• Guided students in their learning of object-oriented programming and data structures with Java	

## SKILLS

**Languages:** Java, C, Python, SQL, Scheme, MATLAB, HTML/CSS  
**Computer:** AutoCAD, Microsoft Office, Photoshop, Illustrator