

# Peter E. Xu

peterxu30@berkeley.edu | (510) 585-7975  
Website: peterxu30.github.io | Github: github.com/peterxu30  
Address: 1780 Spruce St. #5, Berkeley, CA 94709

## Education

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### University of California, Berkeley

B.A. Computer Science, expected May 2018

GPA: 3.45

Current Coursework: Operating Systems, Databases

Relevant Coursework: Artificial Intelligence, Foundations of Data Science, Devices and Systems, Computer Architecture, Efficient Algorithms & Intractable Problems, Data Structures, Discrete Math & Probability Theory, Structure & Interpretation of Programs, Linear Algebra & DiffEq, Multivariable Calculus

## Skills

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Proficient in Java, Python, HTML, CSS, Git, Unix

Experience with C++, C, Swift, iOS, Angular.js, Node.js, Go, MongoDB.

Conversant in Mandarin.

## Industry Work Experience

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### Workday, Pleasanton, CA

*Associate Software Engineer Intern, Tools Division - Business Intelligence*

May 2016 - August 2016

- Developed a debugging tool for Workday's Composite Reporting platform for management and financial reporting.
- Designed and implemented a graph minimizing algorithm to locate the source of error that integrates with the existing Composite Reporting codebase.

## Academic Work Experience

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### Software Defined Buildings Lab, Berkeley, CA

*Research Assistant*

August 2016 - Present

- Develop IoT device drivers for the BOSSWAVE 2 pub-sub data plane.

### UC Berkeley Computer Science Department, Berkeley, CA

CS 61A, Structure and Interpretation of Programs

*Undergraduate Student Instructor*

January 2016 - Present

- Lead weekly discussion and lab sections to teach and reinforce course concepts.
- Hold weekly office hours to assist students.
- Pilot the online version of the course.

## Projects

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### QuickSend ([www.github.com/peterxu30/qs](http://www.github.com/peterxu30/qs)) - C++

May 2016 - Present

- A lightweight terminal-based program to send emails and attachments quickly.
- Git-inspired features such as file staging, message logging, and account switching.

### HotBox-X ([www.hotbox-x.xyz](http://www.hotbox-x.xyz)) - Java, Node.js, Angular.js, MongoDB

May 2015 - September 2015

- *Flappy Bird*-like game developed for the Model Predictive Control Lab at Berkeley. Game modes and parameters such as obstacle distribution, gravity, and reward value are configurable by the researcher.
- Data such as player, obstacle, and reward positions are recorded for research purposes.

### Yannotator ([www.yannotator.xyz](http://www.yannotator.xyz)) - Node.js, Angular.js, MongoDB

October 2015 - November 2015

- YouTube video annotator web application that supports keyboard and speech-to-text annotating.
- Notes show up at specified start times and persist for a user-set period of time as video plays.
- Annotations are shareable through room codes so that others may join, read, and contribute annotations in real-time.

## Interests

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Anything and everything green tea, running, Disney movies, and general nerding out.