

**Brian Su** | (925) 319-7408 | brian@brianysu.com | github: briansudev | brianysu.com

## EDUCATION

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### UC Berkeley

GPA: 3.7

B.A. Computer Sci

Expected May 2016

Courses Enrolled: CS61C: Machine Structures, CS70: Discrete Math and Probability, IEOR 171: Tech Firm Leadership

Courses Completed: CS61A: Structure and Interpretation of Computer Programs, CS61B: Data Structures (A+, Hilfinger), Math 54: Linear Algebra

### Coursera

Courses: Game Theory, Developing Innovative Ideas for New Companies, Smart Growth for Private Business

## WORK EXPERIENCE

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### Lab Assistant

Aug 2013 - *curr*

- Assisted students in CS61A, CS61B labs
- Held regular office hours

## PROJECTS

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### Smart Power Nap

*Android, Java*

- Built an app that uses the accelerometer to determine when the user falls asleep, a prolonged period of inactivity, and then sets an alarm to create the perfect power nap

### Graph API

*Java*

- Supports Undirected and Directed graphs
- Implemented BFS, DFS, and A\* var. of Dijkstra's algorithm
- Built tripfinder client that creates the shortest path from A -> B w/ location/road data
- Created a makefile client which determines which targets to build based on its prerequisites and build data from a depth-first traversal of the data

### Jumping Cubes

*Java*

- A board game; the goal is to conquer all the squares on the board
- Built an AI that uses min-max alg. with alpha-beta pruning to select the next best move

### Hando

*Python, Flask*

- Built the web app. used to interact with the hardware that remotely unlocks a door
- Best First Hack Award at BearHack 2013

### Other

- Enigma Machine – *German WWII Encryption/Decryption Clone* (Java)
- LaTeX Clone – A text editor that formats raw-text (Java)
- Scheme Interpreter – Optimized for tail recursion (Python)
- Personal Website (HTML, CSS, Bootstrap)

## SKILLS

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Languages: Python, Java, JS, HTML, CSS

Frameworks: Android, Node.js, Flask, Bootstrap

## AWARDS

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- UC Berkeley Leadership Award Finalist
- AXA Community Scholarship Finalist
- National Merit Finalist