

# Brandon Jinwoo Pang

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## EDUCATION

### University of California, Berkeley

Degree: Electrical Engineering and Computer Science

Bachelor of Science, Computer Science

May 2017

**Relevant Courses:** Artificial Intelligence – *in progress* (CS188), Efficient Algorithms – CS170, Data Structures – CS61B, Machine Structures – CS61C, Discrete Mathematics and Probability Theory, Structure and Interpretation of Computer Programs – CS61A, Linear Algebra – *in progress* Math 54

## EXPERIENCE

### Laboratory Assistant CS61A (Structure and Interpretation of Computer Programs) June 2014 - Present

- Guided and assisted students in labs, homework, and projects after taking the introductory computer science course
- Led and hosted office hours and tutoring sessions in a collaborative environment to help students

### System Administrator Assistant, Berkeley Wireless Research Center Sept 2013 – June 2014

- Developed and continuously updated the BWRC website and BWRC wiki page
- Troubleshooted various server-side issues, network issues, and other technical problems encountered by researchers
- Assembled and installed both software and hardware for the research center

## PROJECTS

### Image Compressor and Depth Perception Camera | Java, C

- Processes and compresses a given image based on the surrounding pixel RGB values
- Creates a depth level map that determines the distance from the viewer and the object based on a given left and right side image

### Scheme Interpreter | Python

- Basic Scheme interpreter written in Python
- Evaluates basic commands in Scheme and outputs corresponding commands and functions

### Sudoku Solver | Python | HackSC

- Evaluates a given Sudoku board and either produces an answer based on the given board configuration or returns that there is no available answer
- Implements boolean satisfiability to cross reference the given information and produced results

### Station | Java, Android | YHack

- Mobile-based app that determines your location and displays a list of nearby radio stations
- Implements Google Maps API and Location API to properly display your position and to determine the closest radio stations

### DNA Reconstruction | Python

- Reads substrings as input and reconstructs the original DNA sequence based on the given input

### Spam Filter Detection | Python

- Utilizes random k-forests to evaluate features of an email and determines whether or not said email is spam

## SKILLS/INTERESTS

- Technical Skills: Python, Java, C, HTML, CSS
- Interests: traveling, basketball, gaming, reading, origami