

# Patrick O'Halloran

Del Mar, CA

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github.com/patrickohalloran

## Education

### University of California, Berkeley

B.A. in Computer Science

#### Relevant Coursework

- Data Structures
- Machine Structures
- Structure & Interpretation of Computer Programs
- Computational Models of Cognition

August 2013 - May 2017

Cumulative GPA - 3.76

- The Web Design DeCal
- Discrete Mathematics and Probability Theory
- Linear Algebra and Differential Equations
- Efficient Algorithms and Intractable Problems

## Experience

### EECS UC Berkeley

May 2015 - Current

#### Autograder Developer for Beauty & Joy of Computing edX Course

- In a team of 5, built Autograder tools that convert Snap! code to JSON and analyze their contents and is being used by students at Berkeley & thousands of people on our online edX course at: [edx.org/course?search\\_query=BJC](https://edx.org/course?search_query=BJC)
- Created unit tests for online edX lab exercises.

### Northrop Grumman

June 2013 - August 2014

#### College Technical Intern

- In a team of 4, worked with the Information Assurance team to ensure security in our software.
- Created unit tests and managed files with version control.
- In a team of 3, worked on a script that sends a file, unzips it, runs it, collects results, and removes traces.

## Projects

### Tic-Tac-Toe with MinMax (Personal project)

May 2015

Individually built a JavaScript implementation of Tic-Tac-Toe that uses MinMax Algorithm to learn Javascript/HTML/CSS: <https://github.com/patrickohalloran/tic-tac-toe>

### Innovative Design Portfolio Website (Personal project)

April 2015

Individually built a Mobile-adaptive Angular site using a template to showcase our club members' graphic design work over the course of the semester: [patrick.innovatedesign.club](http://patrick.innovatedesign.club)

### Dan's Tools Website (Personal project)

January 2015

Individually created a website from scratch that allows customers to order tools to give customers another option for ordering tools from my Dad. Used open-source PHP email script. <https://github.com/patrickohalloran/danstools>

### Graph Algorithms with Client (Class project)

December 2014

Individually built a graph structure with minimal skeleton code given to our class and implemented a trip finding client using that graph structure to learn about search algorithms (Dijkstra's, BFS, DFS) and graphs.

### Personal Website (Class project)

November 2014

Individually built a personal site from scratch for our final project. Uses a unique navigation user interface at: [patrickohalloran.github.io](http://patrickohalloran.github.io)

## Skills

Java, Python, HTML, CSS, Unix (Mac OS X), UI/UX, Data Structures, Algorithms

## Interests

Playing and watching Basketball, following the NBA and all of the player stats, skateboarding, eating California Burritos