Patrick O'Halloran

Del Mar, CA   858.342.1876   patrickohalloran3@gmail.com

github.com/patrickohalloran

Education

University of California, Berkeley   **August 2013 – May 2017**

B.A. in Computer Science   Cumulative GPA – 3.76

Relevant Coursework

- Data Structures
- Great Ideas in Computer Architecture
- Structure & Interpretation of Computer Programs
- Computational Models of Cognition
- 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**
- 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-Current**

Individually built a JavaScript implementation of Tic-Tac-Toe that uses MinMax Algorithm to learn Javascipt/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.innovativedesign.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**

Skills

Java, Python, C, JavaScript, jQuery, HTML, CSS, AngularJS, Unix (Mac OS X), UI/UX, Data Structures, Algorithms, MIPS

Interests

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

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