Patrick O'Halloran

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Education

University of California, Berkeley   **August 2013 – May 2017**
B.A. in Computer Science and Cognitive Science   Cumulative GPA – 3.76

Relevant Coursework

-Data Structures   -The Web Design DeCal
-Great Ideas in Computer Architecture   -Discrete Mathematics and Probability Theory
-Structure & Interpretation of Computer Programs   -Efficient Algorithms and Intractable Problems
-Computational Models of Cognition

Skills

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

Experience

EECS UC Berkeley   **May 2015 – Current**
Autograder Developer for Beauty & Joy of Computing Course
- Wrote tools that convert Snap! code to JSON and analyze their contents
- Created unit tests for the autograder in JavaScript
- Built Autograder tools that will be used by students at Berkeley & thousands of people on our online edX course at **bjc.berkeley.edu**

Northrop Grumman   **June 2013 – August 2014**
Technical Intern
- Collaborated with the Information Assurance team to ensure security in our software.
- Utilized Linux (Red Hat) to help run Information Assurance tests
- Worked on a script with fellow interns that sends a file, unzips it remotely, runs it, collects results, and then removes traces.
- Created unit tests and managed files with version control.

Projects

Tic-Tac-Toe with MinMax   **May 2015-Current**
Built a JavaScript implementation of Tic-Tac-Toe that uses MinMax Algorithm:
https://github.com/patrickohalloran/tic-tac-toe

Innovative Design Portfolio Website   **April 2015**
Mobile-adaptive Angular site using a template: **patrick.innovativedesign.club**

Dan's Tools Website   **January 2015**
Created a website from scratch that allows customers to order tools. Used open-source PHP email script. **https://github.com/patrickohalloran/danstools**

Graph Algorithms with Client (Academic)   **December 2014**
Built a graph structure with minimal skeleton code given to our class and implemented a trip finding client using that graph structure.

Personal Website   **November 2014**
Built from scratch, uses a unique navigation user interface at: **patrickohalloran.github.io**