

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
- 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

Maximum Acyclic Subgraph Optimization (Class project)

November 2015

In a team of 4, we made algorithms to best approximate the maximum acyclic subgraph given an adjacency matrix. I constructed the parser to read .in files and write to .out files, and created a local search approximation algorithm

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

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>

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

Interests

Playing and watching Basketball, following the NBA and the player stats, Skateboarding, Finding great views of the Bay