Keith Yong

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keithy.me

Education

University of Delaware
Computer Science BS
Class of 2016
Focus in Web Development

Projects

Find my web projects at keithy.me

Chatter (February 2015)
Wrote a real-time online chatroom using a React frontend, and socket.io, Node, and postgresQL backend.

Online Fibonacci Calculator (December 2014)
Wrote an online nth-Fibonacci calculator in Javascript. Gives the users a choice to calculate using dynamic programming or recursion, and notifies them of the running time. Wrote an explanation under the calculator which analyzes how dynamic programming significantly reduces running time. Used D3.js and media queries to make mobile responsive recursion tree visuals.

Pomodoro Timer (January 2015)
Wrote an online pomodoro timer in pure Javascript and CSS with a focus on UX and design. Used CSS media queries to ensure a mobile ready responsive experience.

Dota Stats (February 2015)
Wrote a GitHub-like visualization of my Dota 2 (an online game) playtime using D3. Updated every 5 minutes.

Rat Dungeon Survival (December 2014)
Worked with a team to write a genetic algorithm framework in C++ that grooms a genetic rat to survive a dungeon for the most number of moves. Modeled algorithm after natural selection where the fittest rat moves to the next generation and biological reproduction where a portion of the male and a portion of the female's chromosomes are exchanged during gene crossover. Allows tweaking of different variables such as mutation chance and crossover rat to maximize rat improvement rate.

Core Skills

Algorithms
Sorting, Data Structures, Big-O analysis, NP-Complete analysis, Genetic Algorithms, Weighted Graph Algorithms

Data Structures
Queues, Stacks, Heaps, Binary Trees, Binary Search Trees, Graph Theory

Languages

Good - Javascript (Node, Express, D3.js, JQuery), CSS3 (Media Queries, Skeleton.css)
Familiar - C, C++, Java, MySQL

Tools

Bash, Linux, MacOS, Xcode, LaTeX