

Joshua Dawson

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LINKS

Github: [djoshuac](#)
Stack Exchange: [@Josh Dawson](#)
Hackerrank: [@samwisedumb](#)
CodeForces: [djoshuac](#)

EDUCATION

UTAH STATE UNIVERSITY

BS IN COMPUTER SCIENCE

Expected Dec 2018

Utah State GPA: 3.53

Cum. GPA: 3.31

COURSEWORK

Advanced Algorithms
Discrete Mathematics
Linear Algebra
Statistics Linear Regression
Data Science
Software Development
Concurrency and Operating Systems

ACTIVITIES

USU ACM - Treasurer
Hack USU
USU Film Society
USU Choral
ESL Summer School Reading Tutor

SKILLS

PROGRAMMING

Seasoned:

C++ • Python • JavaScript • Java

Experienced:

C# • C • R

Knowledgeable:

WebGL • BASH • Haskell

TOOLS

Git • Unix • RegExp
SQL • MongoDB
CMake • CLion • Visual Studio • Eclipse
Angular 4 • Node.js • CSS

ACHIEVEMENTS

1804 Rating on Hackerrank
1510 Rating on CodeForces
38 Solved Problems on Project Euler

EXPERIENCE

ELITE ROOFING | REMOTE SOFTWARE DEVELOPER

Louisville, KY | Dec 2014 - Present

- Built and maintained the company's CRM software written for Google Drive using Google Apps Script - Dec 2014 - Dec 2016
- Worked with a team of developers to rewrite the system into a web app using a MEAN stack - Dec 2016 - Present
- Designing, testing, and implementing components with the Angular 4 framework
- Writing back-end handlers with Nodejs and Express to query and modify a Mongo database

UTAH STATE UNIVERSITY | COMPUTER SCIENCE TUTOR

Jan 2017 - Present

- Helping students with assorted technical issues: program bugs, compiler issues, installing tools, etc
- One on one help explaining programming concepts: recursion, classes, loops, functions, etc
- Teaching students to become better programmers: testing, using debuggers, localizing design decisions, etc

PROJECTS

CODE REVIEW AND STACK OVERFLOW | @Josh Dawson

April 2016 - Present

I am an active member of the Code Review and Stack Overflow communities on Stack Exchange. I thoroughly enjoy sharing programming knowledge and helping people write quality code. My questions and answers on these site reflect my programming knowledge and offer samples of my technical writing.

USU ACM SPRING 2017 COMPETITION | [LINK TO COMPETITION](#)

March 2017

Helped with logistical tasks of running the competition. Wrote three out of the fifteen problems and extensively tested many others.

- Best Words - Difficulty Medium: Solutions needed to utilize hashmaps and lists to keep track of word frequencies.
- Eugorythmic Growth - Difficulty Hard: Brute force would pass some test cases; however, an ideal solution would realize the problem's relation to finding the greatest common factor.
- Toothpicks - Dynamic programming could solve most test cases; however, an ideal solution required a nearly closed form solution to find the roots of polynomials—one possibility being fixed point iteration.

RECURSIVE TIC-TAC-TOE | GITHUB

Sept 2017 - Present

A tic-tac-toe with a twist web app written in Angular 4

ASSORTED PROGRAMMING COMPETITIONS | GITHUB

May 2015 - Present

Coming up with fast solutions to tough problems is my passion. I thoroughly enjoy learning and practicing new algorithmic strategies, and websites like Hackerrank, CodeForces, and ProjectEuler are a great place to practice.