Daniel Anderson

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Education:

3.89 GPA, University of Kansas, Honors Program. Expected graduation date: May 2017

Top 25 GPA in EECS sophomore class at KU

Double Major: Bachelor of Science in Computer Science and Bachelor of Science in Mathematics

Skills:

Programming Languages:

Java, Ruby, Python, C++

Database Experience:

MongoDB

Tools:

Git/Github, Eclipse, Linux, Windows

Experience:

Software Engineering Intern:

Red Nova Labs, Westwood, KS

Summer 2014

Worked in Ruby on Rails to develop an in house analytics tool. Responsibilities included adding features, modifying database structure, and bug fixing.

Features added include:

Used Sidekiq (Ruby library) for mass data import and aggregation (decreasing runtime by appx. 25 times)

Ability to compare product performance by geographic region.

Ability to view client data for any arbitrary month.

Scraped and parsed HTML from various sources to import data.

Added new database table to hold data more efficiently, greatly improving load-time for selected data.

Programming Projects:

Regular Language Acceptor: Worked in a 4 person team to create an application in Python to take regular languages (expressed as deterministic or nondeterministic finite-automaton, or regular grammar) and determine whether given strings are elements of the given language. On Github.

Sudoku puzzle solver: Used Swing to create a GUI for the Sudoku board. Solved puzzles through both elegant methods and a recursive brute-force algorithm. Allowed for saving and loading of puzzles. On Github.

BigInt class: This class represented integers of arbitrary size and allowed for arithmetic between them. Operations implemented include addition, subtraction, multiplication, division (modular and integer) and comparison (through implementing Comparable).

Path Finding: This program found a path between a starting and ending location on a 2-dimensional grid. Both depth- and breadth-first were implemented.

Conway's Game of Life: Created Conway's Game of Life on a (theoretically) infinite grid using a HashMap. On Github

Other Work Experience:

University of Kansas, School of Engineering:

Oct 2014 – Current

Discrete Structures and Calculus Tutor

Math Monkey, Overland Park, KS:

Oct 2012 – August 2013
Assistant Instructor and Tutor