ALEXANDER FISCHER

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Education

University of Massachusetts, Amherst, MA

2016-2020

- Double majoring in computer science and mathematics (concentration: pure math)
- GPA: 4.0

University of Colorado, Colorado Springs, CO

2014-2016

- · Completed online mathematics classes while in high school
- GPA: 3.9

Franklin High School, Franklin, MA

2012-2016

- Graduated top 10 in class with a GPA of 3.9
 Relevant Computer Science Coursework

 Computer Systems
- Relevant Computer Science Coursework
 – Computer Systems Principles (ongoing),
 Reasoning Under Uncertainty (ongoing), Honors Programming with Data Structures,
 Introduction to Computer Science
- Relevant Mathematics Coursework–Mathematical Cryptography (ongoing), Discrete Structures (ongoing), Statistics, Multivariable Calculus, Linear Algebra, Differential Equations, Modern Analysis, Complex Variables

Experience

Side Projects

- Chamberwell
 –Android game published on Google Play where one has to tilt the screen to move balls into the correct chambers
- Mandelbrot set renderer—renders images of the Mandelbrot set with smooth coloring and multithreading
- Automata renderer

 renders Wolfram's elementary cellular automata and Conway's

 Game of Life
- SPIRE autoenroller—continuously checks if a class is open then automatically enrolls one in it if so
- Franklin High School ID search—website and chrome extension that allows Franklin High School students to search for their classmates' email addresses by name
- See personal website (http://alexfischer.me) for more detailed information on side projects

Hackathons

- HackHolyoke 2016—won best hardware hack for prototype of a bike lock that could be unlocked with a phone using Bluetooth low energy
- HackUMass 2016—used Leap Motion, a Raspberry Pi and servo motors to create a
 game where a physical maze is controlled by rotating one's hand to move a ball
 through the maze. Project was selected as one of Devpost's projects of the week and
 included in their newsletter

Undergraduate Teaching Assistant

Spring 2017

Undergraduate TA for computer science class 'Programming with Data Structures'

Town of Franklin IT Department, Franklin, MA

2014-2016

- Volunteered to set up computer systems in new high school while it was under construction (summer 2014)
- Continued to volunteer with Franklin High School's IT department thereafter

Skills

- Programming Languages—Java (including Android), HTML/CSS/Javascript, C
- Technologies-Linux/Unix, Git, Emacs