Email for additional personal info

Education

University of Massachusetts Amherst Computer Science, Graduating 2019

3.6/4.0 GPA

High School Diploma with Honors, Graduated 2015

3.9/4.0 GPA

Technical Work

Freelance Programmer with Custom Software Solutions

2017-Present

- Developed and implemented custom built software for companies nationwide
- Multidisciplinary: from web dev, to Unity mobile games, to academic research tools

Coding Instructor with iD Tech Computer Education

2017

- Designed curriculum and taught classes (ages 7 to 17)
- Taught a myriad of topics, including Web Design, Java, Game Design

Programming Consultant and Educator with Amherst High

2015-2016

- Helped design 'Green Sensors' to gather data on the time elementary students spend in nature.
- Worked with a team of high school students to produce effective, cheap, and easily replicated sensors

Coding Languages

- **♦** Java
- Javascript
- HTML
 - css
- Python
- **♀** C#
- Scala

Other Skills

- ◆ Technology Specific Education
- ◆ Game Design (Unity)
- Public Speaking
- ◆ Graphic Design

(Adobe Photoshop)

Relevant Coursework

- Data Structures
 - Designing and implementing generic data, linked structures, binary trees, hash tables, etc.
- Computer Systems Principles
 Writing in C and assembly, modeling low-level systems, such as caches, compression, etc.
- Web Programming Using Javascript, HTML and CSS to build a website from scratch with a team.
- Computation Discrete mathematics, number theory, predicate calculus, etc to apply to algorithm design.
- Algorithms
- Calculus I & II
- Statistics

Selected Personal Projects

- Altruism Simulator Java
 - A visual program designed to test the theory of 'Kin Selection', arbitrary organisms evolve in parallel, with one trait being their generosity as per 'Hamilton's Rule'
- Spreadsheet-To-Cards Javascript, HTML Programmatically taking any csv, excel, or any other spreadsheet data and creating a set of HTML elements to display the information as cards. Can be used for card games, flash cards, speech prompts, etc.
- OCR Neural Network Visualizer Java And educational tool for visualizing the inner workings of a scratch-written neural network tasked with optical character recognition
- Sudoku Solver Scala
 Recursive-only solution to the parsing, manipulation, and solving of the classic puzzle. Optimized.

Misc. Recognitions