

# Ajay Sarathy

## PROGRAMMING SKILLS

**FLUENT:** Java **EXPERIENCED:** Haskell, C++, JavaFX, Arduino, HTML, CSS, Django, Python **FAMILIAR:** ProLog, Ruby, Git, JavaScript

## EDUCATION

### AMHERST COLLEGE, AMHERST MA, B.A. (COMPUTER SCIENCE)

*August 2018 – December 2021*

Relevant Coursework: Programming Language Paradigms, Data Structures, Computer Architecture

### UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA PA, B.A.

*August 2017 – May 2018*

Dean's List

## EMPLOYMENT

### FREELANCE WEB DEVELOPMENT, REMOTE

*September 2020 - Present*

Built full-fledged websites to the defined functionality and design requirements of clients. Gained experience in front-end development, back-end development, and client management.

### AMHERST COLLEGE ROBOTICS FELLOWSHIP, AMHERST MA

*June 2019 - August 2019*

Designed, prototyped and built 3 intelligent robots to ASME competition specifications. Gained experience in robotics programming using C++/Arduino, 3D printing and project management.

## PROJECTS

### AMORPHOUS ALGORITHM SIMULATION

Amorphous computing is a computing model that draws inspiration from how biological systems utilizes a large number of relatively simple units to produce complex emergent behavior solely through local interaction between units. Developed and built a simulation that intelligently mimics emergent behaviors found in nature such as firefly synchronization. (JavaFX)

### JAPANESE CROSSWORD, KURODOKO, KUROOTTO GAME

Designed a graphical user interface that allows players to generate and play a Japanese crossword, Kurodoko puzzle, or Kurotto puzzle as desired. Implemented a solving algorithm that will solve any that can solve any of the 3 puzzles correctly. (Java Swing)

### PERSONAL WEBSITE

Created a website to display my personality and interests while also showcasing my web development skills. Built the front-end design from scratch without the use of any CSS templates or Bootstrap. Generated advanced analytics and visualizations of my running data pulled from the Strava API. (Django)

## ATHLETICS

### CROSS COUNTRY & TRACK AND FIELD

*August 2013 - Present*

**Amherst College:** Captain. Won the 2018 XC NESCAC team championship and the DIII New England Regional team championship. Placed 16<sup>th</sup> at the 2018 XC NESCAC championships and named all-region at the New England Regional championships.

**University of Pennsylvania:** Varsity Runner. Competed as a Quaker at the D1 level for three seasons.