Ajay Sarathy

PROGRAMMING

EXPERIENCED: Java, Python, Django, Haskell, Heroku, HTML, CSS, Git

SKILLS

FAMILIAR: TensorFlow, Scikit-learn, Keras, C++, JavaScript, ProLog, Ruby, React, Arduino

EDUCATION

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

August 2018 - May 2022

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

August 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++, 3D printing, CAD, and project management.

PROJECTS

COLLECTIVE INTELLIGENCE ALGORITHM SIMULATION

Collective intelligence, or 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)

GAME AI TRAINING WITH NEAT

Trains an AI to play simple video games such as Super Mario Bros and Flappy Bird using the NEAT algorithm. NEAT, short for neuroevolutionary of augmenting topologies, is a genetic algorithm that allows neural networks to evolve neural networks in model that imitates biological evolution. (Python)

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 templets or Bootstrap. Generated advanced analytics and visualizations of activity 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^{th} 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.