

Joseph Howarth

Capable and fast learning computer and data science enthusiast who enjoys coding for work and play

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📍 Suffield, United States

🌐 Joseph.how

🐙 www.github.com/JoeHowarth

EDUCATION

Computer Science, Mathematics

Tufts University

09/2016 – 05/2020

3.8 GPA

PERSONAL PROJECTS

GoScanner (07/2017)

- Transforms webcam pictures of Go board into a digital record of the game.
- Uses traditional and deep convolutional computer vision to detect and segment board, then classify each position.

TrippyAdvisor (10/2016)

- PolyHack 2016 Finalist, TripAdvisor Special Prize Winner
- Generates and plots day trip for any location based on user's input. Samples surrounding area with TripAdvisor API, chooses suitable destinations, then plots route with Google Maps.

BobBot (04/2017)

- Markov Chain based Twitter bot written in Clojure and deployed through Heroku.
- Gained experience with Functional Programming, immutability and a lisp dialect. Trained on poems by Edward Lear.

Clone48 (07/2017)

- Recreates popular 2048 puzzle game in React.
- Timed 12hr project to solidify React knowledge under pressure.

Joseph.how (05/2017 – Present)

- Personal site built using React.
- Still a WIP, plan to add hosting for other project sites on subdomains, refactor add general polish.

WORK EXPERIENCE

Comp 40 Teaching Assistant (TA)

Tufts CS Department

09/2017 – Present

Medford, MA

Achievements/Tasks

- Guiding students with design, coding and debugging C projects
- Evaluates student's design documents

Contact: Noah Mendelsohn – noah@cs.tufts.edu

IT and Office Administrator

Gallagher & Howarth Law

05/2013 – 09/2016

Suffield, CT

Achievements/Tasks

- Built basic company website from scratch.
- Learned the basics of aesthetic css and web hosting
- Managed computer and phone systems.

SKILLS

Independent Learner

Organized

Pair Coding Eperience

ACHIEVEMENTS

Tufts PolyHack Finalist (2016)

TripAdvisor Special Award Winner

CT Science Fair Finalist and Prize Winner (2014)

1st place Photonics, 2nd place Energy awards for "Energy Transfer Using Laser Power Beaming" project

RELEVANT COURSES

Data Structures

Machine Structure

Projects based, pair programming in C

Natural Language Processing

Implementing and applying NLP alogorithms

Algorithms

Will have completed Spring-2018

Web Programming

Fundamentals of Javascript, Databases, writing API's

Discrete Math

LANGUAGES

C / C++



Python



Javascript



Clojure



TECHNOLOGIES

Numpy

Pandas

React

Node.js

Keras

TensorFlow

NLTK

OpenCV

Heroku

Git

Unix / Bash

Functional Programming