Edward C. Yao
edwardcdy@gmail.com
http://www.edwardcdy.com/
4833 Hinman Box, Dartmouth College
(319)-853-8789

EDUCATION

Dartmouth College September 2015 - July 2019
Majors: Computer Science, Economics
Minor: Math Overall GPA: 3.80/4.00

EXPERIENCE

Dartmouth Hitchcock Medical Center July 2017 -
Research Assistant *Hanover, New Hampshire*

· Conduct research based on predictive modeling of Instagram data and images on substance abuse via computer vision classification techniques based on convolutional neural networks
· Work with deep learning frameworks, Pytorch and TensorFlow, in python

Educatrium June 2016 - August 2016
Web Development Internship *Seoul, South Korea*

· Collaborated closely with other intern and CEO to develop an online platform (AngularJS/Ruby on Rails) for matching college mentors from the U.S. with kids from across Asia
· Worked with marketing team to supervise testing of website and initial deployment to live servers

Dartmouth College Computer Science Sept. 2016 - July 2017, Sept. 2017 -
CS1 & CS10 Teaching Assistant *Hanover, New Hampshire*

· Led hour-long recitation sections once per week for sections of 8-10 students on average, reviewing data structures and object oriented programming concepts in Java (CS10) and foundational programming structures in Python (CS1)
· Graded labs and homeworks for both classes, as well as staffing help hours for lab assignments
· Participated in the grading of all midterms and finals, as well as occasionally producing or revising some portion of the solution keys

SELECTED PROJECTS

Tiny Search Engine

· This project was separate modules: an **indexer** that crawled webpages and all outgoing links from those pages, an **indexer** that would find words on those pages, and a **querier** that could search those pages - think Google 0.0.01! Written in C.

Y86 Processor - Logisim

· A fully functional Y86 processor (a simplified version of Intel x86 family). Built in logic simulation software logisim and programmed with added assembly code loaded into ROM to simulate start-up and kernel mode.

TECHNICAL STRENGTHS

Computer Languages JS/HTML/CSS, Python, Java, C, VHDL, Assembly, Clojurescript, MATLAB
Software & Tools Excel, LaTeX, SciPy/NumPy/Pandas, Git

RELEVANT COURSEWORK

Discrete Mathematics in Computer Science
Machine Learning and Statistical Data Analysis
Problem Solving via Object-Oriented Programming
Digital Electronics
Algorithms
Software Design and Implementation
Computer Architecture
Linear Algebra