

Monica Song

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Education

HARVARD UNIVERSITY

B.A. in Computer Science
August 2015 - June 2019
Cambridge, MA

LA CAÑADA HIGH SCHOOL

September 2011 - June 2015
La Cañada Flintridge, CA
GPA: 4.7 W, 4.0 UW

Skills

PROGRAMMING

Python (sklearn, pandas, numpy) •
OCaml • C++/C

Tools and Frameworks:

OpenCV • PyTorch • Linux • Flask •
AWS • Mturk • SQL • Docker • ffmpeg

Other

HTML • CSS • Javascript • R •
Psychopy

DESIGN

Adobe Photoshop • Adobe
InDesign • Adobe Illustrator

MISC. SKILLS

Product Design • Light Design •
Marketing • Branding

Coursework

UNDERGRADUATE

Data Science
Systems Programming
Functional Programming
Probability
Stochastic Processes
Linear Models
Theory of Computation
Artificial Intelligence
Machine Learning
Data Structures and Algorithms

Interests

Entrepreneurship, self-driving technology, computer vision, cognitive science, design, blogging, food innovation

<https://github.com/monicadsong>
<https://kaledivergence.com>

Experience

PERCEPTIVE AUTOMATA, Autonomous Driving Company

Data Science and Computer Vision Intern | Summer 2018

Built and deployed cognitive science experiment on Amazon Mturk.
Researched style transfer techniques and tested them on dashcam data.
Implemented statistical models and compared predictions with RNN.

NATURED CO, Fresh Food Delivery Startup

Backend Engineering Intern | Spring 2018

Built feature to synchronize admin catalog with marketplace catalog

DESORA, Smart Home Cooking Appliance Startup

Product Design Intern | Summer 2017

Wireframed and redesigned existing smart home mobile app
Pitched and created white paper detailing the company's scientific process.

Research

COMPUTATIONAL PERCEPTION AND COGNITION LAB

Undergraduate Researcher | September 2018 - Present

Work on improving computer vision applications for action prediction.

CARAMAZZA LAB, Cognitive Neuropsychology Laboratory

Research Assistant | Spring 2016

Implemented experiment to investigate age-related biases in the perception of body movement and limb momentum.

Activities

CS182, Undergraduate Artificial Intelligence Course

Teaching Assistant | September 2018 - Present

Hold office hours. Grade problem sets and exams.

HARVARD BALLET COMPANY, Student Dance Group

Producer | September 2015 - December 2017

Planned production timeline and deadlines. Created tech week schedule.
Recruited and trained tech crew for stage and house managing roles

HCS DATAMATCH, Algorithm-based Matchmaking Service

Website Programmer and Designer | September 2016 - February 2018

Fine-tuned existing UX for signup, survey, and result-viewing processes.
Created promotional materials for publicity campaign.

Projects

TECH WEEK SCHEDULER, CS182 Final Project

December 2017

Implemented several algorithms to solve constraint satisfaction problem.
Deployed web application on Amazon Elastic Compute Cloud Instance.

ROOTED, Vegan Algae Protein Bar Startup

Spring 2017

Crafted brand identity. Developed business and marketing strategy.
Pitched idea at competitions across the nation.