

## 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

Production Design • Light Design •  
Marketing • Branding

## Coursework

### UNDERGRADUATE

Data Science  
Operating Systems  
Functional Programming  
Probability, Statistics  
Theory of Computation  
Artificial Intelligence  
Machine Learning  
Data Structures and Algorithms

## Interests

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

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

## Experience

### PERCEPTIVE AUTOMATA, Autonomous Driving Company

Data Science and Computer Vision Intern | May 2018 - August 2018

Gathered images from company database, built user interface and deployed cognitive science experiment on Amazon Mturk. Analyzed results.

Researched style transfer techniques and tested them on dashcam data.

Implemented hidden markov model and compared predictions with RNN.

### NATURED CO, Fresh Food Delivery Startup

Backend Engineering Intern | February 2018 - May 2018

Built feature to synchronize admin catalog with marketplace catalog

### DESORA, Smart Home Cooking Appliance Startup

Product Design Intern | June 2017 - August 2017

Worked with engineering team to completely redesign existing smart home mobile app. Wireframed the Register, Connect, and Cook user flows.

Pitched, storyboarded, wrote, and created 45-page white paper detailing the company's scientific and product design process.

### CARAMAZZA LAB, Cognitive Neuropsychology Laboratory

Research Assistant | February 2016 - May 2016

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

## Activities

### HARVARD BALLET COMPANY, Student Dance Group

Producer | September 2015 - December 2017

Collaborate with directors and dancers to plan production timeline and deadlines to ensure a successful show opening and run.

Recruit and train tech crew for stage managing, house managing, and sound operating roles.

### HCS DATAMATCH, Algorithm-based Matchmaking Service

Website Programmer and Designer | September 2016 - February 2018

Fine-tune existing UX for user signup, quiz, and result-viewing processes

Created promotional materials for publicity campaign

## Projects

### TECH WEEK SCHEDULER, Constraint Satisfaction Problem Solver

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. Communicated with bar and packaging manufacturers.

Pitched idea at competitions across the nation.