Monica Song

https://monicasong.com
monicasong@college.harvard.edu

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 tech-
nology, 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 de-ployed 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
- Collaborated with directors and dancers to plan production timeline and deadlines. Created tech week schedule.
- Recruited 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-tuned existing UX for signup, survey, and result-viewing processes.
- Created promotional materials for cpublicity 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. Communicated with bar and packaging manufacturers.
- Pitched idea at competitions across the nation.