Monica Song

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Education

HARVARD UNIVERSITY

B.A. in Computer Science August 2015 - June 2019 Cambridge, MA Cum. GPA: 3.72

LA CAÑADA HIGH SCHOOL

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

Skills

PROGRAMMING

Python (sklearn, statsmodels, pandas, numpy) • OCaml • C • Javascript • Matlab

Tools and Frameworks:

Ubuntu • Flask • Amazon Web Services • Docker • Psychopy

Web Templating:

HTML (Jinja) • CSS • Bootstrap

DESIGN

Graphic Design:

Adobe Photoshop • Adobe InDesign • Adobe Illustrator

Prototyping:

Invision

Coursework

UNDERGRADUATE

Linear Algebra
Functional Programming
Probability
Data Science
Theory of Computation
Artificial Intelligence

Interests

Ballet, design, entrepreneurship, food innovation

Experience

DESORA, Smart Home Cooking Appliance Startup

Product Design Intern | June 2017 - August 2017

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

Increased website traffic by over 400% using various SEO techniques.

Pitched, storyboarded, wrote, and created 45-page lab report detailing the company's scientific and product design process. Available for public distribution in 2018.

HCS DATAMATCH, Algorithm-based Matchmaking Service

Website Programmer and Designer | September 2016 - Present

Fine-tune existing CSS and Javascript code to improve user experience of the sign-up, survey, and results processes.

Conceived of and designed entirely new website credits page.

Created promotional materials for publicity campaign, ultimately leading to a record high number of sign ups in 2017.

CARAMAZZA LAB, Cognitive Neuropsychology Laboratory

Research Assistant | January 2016 - June 2016

Designed and programmed experiment using Psychopy.

Worked with Gilles Vannuscorps to demonstrate human biases in our perception of representational momentum and apparent motion.

Created stimuli by recruiting and photographing individuals and photomanipulating their limbs.

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 5-member tech crew for stage managing, house managing, and sound operating roles.

Designed lights and projections for the Spring 2017 and Fall 2016 shows.

Projects

TECH WEEK SCHEDULER, Constraint Satisfaction Problem Solver December 2017

Implemented trio of algorithms (DFS, heuristic-search, and simulated annealing) to solve constraint satisfaction problem

Built functional web application using Flask, SQL-ALchemy, and Bootstrap

Deployed web application on Amazon Elastic Compute Cloud Instance

Currently used by group of 30+ dancers for Spring 2018 performance

STEEPTIME, Web-based Application for Tea Aficionados

December 2016

Implemented using Python, Flask, and Javascript. Designed with Bootstrap and HTML5.

https://github.com/monicadsong http://blog.monicasong.com/