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 • R
Tools and Frameworks:
Ubuntu • Flask • Amazon Web Services • Docker • Psychopy
Web Templating:
HTML (Jinja) • CSS • Bootstrap

DESIGN
Adobe Photoshop • Adobe InDesign • Adobe Illustrator

OTHER
Light Design • Web Scraping

Coursework

UNDERGRADUATE
Functional Programming
Probability
Data Science
Theory of Computation
Artificial Intelligence
Machine Learning
Data Structures and Algorithms

Interests

Ballet, design, data science, food innovation

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

Experience

NATURED CO, Fresh Food Delivery Startup
Engineering Intern | February 2018 -
- Work on front and back end stack of user recommendation service using React Native and Express
- Generate product suggestions for users using content-based and neighborhood-based algorithms

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.

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

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

ROOTED, Vegan Algae Protein Bar Startup
Spring 2017
- Crafted brand identity. Designed marketing, promotional, social media, and packaging material
- Developed business and marketing strategy. Communicated with bar and packaging manufacturers