MONICA SONG
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Education

HARVARD UNIVERSITY, A.B. in Computer Science, Secondary in Statistics   May 2019
Coursework: Data Science, Artificial Intelligence, Data Structures and Algorithms, Machine Learning, Functional Programming, Systems Programming, Probability, Stochastic Processes, Linear Models, Design Thinking

Skills: Python, OCaml, C/ C++, Linux, OpenCV, SQL, Docker, R, HTML, CSS**,** data analysis, machine learning, computer vision, graphic design (Adobe Creative Suite), production design, user research, marketing, branding

Experience

PERCEPTIVE AUTOMATA   June - August 2018
Data Science and Computer Vision Intern
- Gathered stimuli from database, built UI, and deployed cognitive science experiment on Amazon Mturk.
- Researched neural style transfer techniques and tested them on dashcam video data.
- Implemented statistical models on multiple datasets and compared predictions with deep learning models.

NATURED CO   February - May 2018
Backend Engineering Intern
- Built feature to synchronize admin catalog with marketplace catalog using React, Express, and Javascript.

DESORA   June - August 2017
UI/UX and Product Design Intern
- Wire-framed and worked with engineering team to redesign existing smart home mobile app.
- Created 45-page white paper detailing the company's scientific and product design process.

Research

MIT CSAIL COMPUTATIONAL PERCEPTION & COGNITION GROUP   Sept. 2018 - Present
Undergraduate Researcher with Prof. Aude Oliva
- Conduct research on computer vision and train deep learning models for action prediction.

CARAMAZZA LAB, Cognitive Neuropsychology Laboratory   February - May 2017
Research Assistant
- Coded experiment to investigate age-related biases in the perception of body movement.

Technical Projects

AUTOMATIC TECH WEEK SCHEDULER, CS182 Final Project   December 2017
- Implemented algorithms to solve constraint satisfaction problem and built functional web application.
- Deployed web application on Amazon EC2 for use by 30+ members of the Harvard Ballet Company.

ROOTED, Vegan Algae Protein Bar Startup   February - May 2017
- Product designer. Crafted brand identity. Pitched at I3 Challenge and other competitions around the nation.

Leadership and Activities

CS182, Undergraduate Course in Artificial Intelligence   Sept. 2018 - Present
Teaching Assistant
- Host weekly office hours. Answer questions on Piazza. Grade homework and exams.

HARVARD BALLET COMPANY   Sept. 2015 - May 2018
Producer, Light Designer, Treasurer, Dancer
- Collaborated with directors and 30 dancers to plan production timeline. Created tech week schedule.
- Recruited and trained 5-person tech crew for stage managing, house managing, and sound operating roles.

HARVARD COMPUTER SOCIETY DATAMATCH   Sept. 2016 - February 2018
Website Programmer and Lead Designer
- Fine-tuned UX. Created materials for publicity campaign, resulting in record-high number of signups.

Interests: Entrepreneurship, self-driving technology, blogging, computer vision, design, food innovation