

LILY ZHANG

FULL STACK DEVELOPER

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EDUCATION

Northwestern University

B.S. Computer Science, 2018

GPA: 3.70/4.00

Relevant Coursework

Design, Technology, Research

Human Computer Interaction

Data Structures & Algorithms

Design & Analysis of Algorithms

Artificial Intelligence

Agile Mobile Development

Tangible Interaction Design
and Learning

Machine Perception of Music
and Audio

Computer Systems

Human Centered Product Design

LANGUAGES

Proficient

Python, HTML, CSS, JavaScript

Familiar

Swift, C++, C#, MATLAB, Racket

PROFILES



lilyzhang



lilyzhang



lszhangg



lszhang96

WORK

UNDERGRADUATE RESEARCHER, DELTA LAB

Jan 2017—present

- Research methods to promote the growth mindset and close the gender achievement gap in the context of computer science
- Awarded 2017 Undergraduate Research Grant

SOFTWARE ENGINEERING INTERN, TOVALA

Summer 2016: PubNub, AsyncDisplayKit, InfluxDB, Grafana

- Developed web app to manually control ovens
- Assisted on iOS app development and testing
- Designed dashboard to display data for testing

TEACHING ASSISTANT, NORTHWESTERN UNIVERSITY

Jan 2016—present: Human Computer Interaction

- Lead discussion sections to teach HTML, CSS, and JavaScript
- Run studio sessions focused on design iteration and user testing
- Work alongside professor to monitor Piazza Q&A

PROJECTS

KEYSTROKES

CoffeeScript

Atom package for recording keystrokes and timestamps into a CSV file. Designed for machine learning research purposes in the context of determining ways to detect the fixed or growth mindsets in coding.

SEE MAJOR

Python, Flask, JavaScript, D3

Full-stack web app running on Flask for separating audio signals into foreground and background signals using REpeating Pattern Extraction Technique (REPET) and then displaying the audio frequencies, extracted using Web Audio API, as data charts using D3 framework.