

# LILY ZHANG

## FULL STACK DEVELOPER

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## EDUCATION

### Northwestern University

B.S. Computer Science, 2018  
GPA: 3.71/4.00

### Relevant Coursework

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  
Human Centered Product Design  
Natural Language Processing

## LANGUAGES

### Proficient


Python, Flask, JavaScript  
(Node.js, AngularJS,  
CoffeeScript), HTML, CSS


### Familiar


Swift, C++, C#, MATLAB

## PROFILES

 lilyszhang

 lilyszhang

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 lszhang96

## WORK

### ENGINEERING INTERN, PACKBACK

September 2017—present

- Implement different machine learning approaches to automate and improve efficiency & accuracy of current platform features
- Analyze data to make decisions on best approaches for the team

### SOFTWARE ENGINEERING INTERN, AMAZON

Summer 2017: The Alexa Service Team

- Design and implement Alexa skill using Node.js to demonstrate new features on Alexa
- DynamoDB, Alexa SDK, Mocha, Chai, Sinon

### 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 for oven control and data visualization
- Assisted on iOS app development and testing

## PROJECTS

### CODENAMES

Node, Express, WebSocket, jQuery

Online implementation of popular party board game Codenames featuring a live chat, built-in rule enforcements for spymasters and operatives, and team-wide agreement for card selection.

### 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.