

# Annie Tsai

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, BERKELEY | B.A. COMPUTER SCIENCE & MUSIC

Expected May 2018 | Berkeley, CA • GPA: 3.78/4.00

- Dean's List: Fall 2014, Fall 2015, Spring 2017
- Honors: Fall 2014 – Spring 2016, Spring 2017

### UNIVERSITY PREPARATORY HIGH SCHOOL | VALEDICTORIAN

May 2014 | Victorville, CA • GPA: 4.00/4.00

## EXPERIENCE

### TWILIO | SOFTWARE ENGINEERING INTERN

May 2017 - August 2017 | San Francisco, CA

- Implemented RESTful services in Java to verify the eligibility of customer phone numbers for hosting on the Twilio platform.
- Issued HTTP requests and handled JSON responses under a microservices architecture to manage different client services.
- Created and demoed an application in front of the company that uses the Twilio Voice API to create music via keypad digits.

### BREAKOUT MENTORS | PRIVATE TUTOR

August 2016 - Present | Berkeley, CA

- Mentor beginner programming students ranging from 8-14 years of age through interactive projects using the PyGame API.
- Develop lesson plans structured around core CS concepts and help students build responsive games with functional graphical user interfaces.

### UC BERKELEY EECS DEPARTMENT | LAB ASSISTANT

May 2015 - August 2015 | Berkeley, CA

- Explained coding concepts to students in "The Structure and Interpretation of Computer Programs" course at UC Berkeley.
- Held office hours, reiterated lecture material, and worked through data structures concepts during review sessions.

## PROJECTS

### PINTOS | C

December 2017

- Implemented a working operating system that schedules jobs according to priority (including priority donations) or Multi-level Feedback Queue Scheduling.
- Created a fast and efficient file system able to handle concurrent operations and user program system calls.

### YELP WEB SCRAPER | PYTHON

July 2016

- Used the BeautifulSoup API to scrape and organize business data, filtering results by location, price range, and quality.
- Parsed HTML from the Yelp webpage to form a list of businesses that passed user search criteria and displayed results by opening the corresponding web browser pages.

### GITLET | JAVA

December 2015

- Designed a localized version-control system modeled after Git that saves commits, stores a log history, and maintains chronological order of commits across multiple branches.
- Serialized commit metadata, allowed for commits across multiple branches, and enabled the user to restore their working directory to a previous state.

## SKILLS

### PROGRAMMING

Proficient:

Java • Python • C • HTML • CSS •  $\text{\LaTeX}$

Familiar:

PHP • JavaScript • MySQL • SQL • MIPS

### TOOLS & FRAMEWORKS

IntelliJ • Eclipse • PHPStorm

Logisim • Unix • Git • Spark

BeautifulSoup • Ruby on Rails

jUnit • jQuery • Bootstrap