

# Nian Hu

nianhu96@gmail.com • (929) 312-5426 • [linkedin](#) • [github](#) • [angellist](#)

## Education

### HARVARD UNIVERSITY

B.A. Government. GPA: 3.86

Cambridge, MA

Sep 2014 – Dec 2017

### APP ACADEMY

New York, NY

Rigorous 1000-hour software development course with <3% acceptance rate. Topics include TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and pair programming.

## Skills

React.js, Ruby on Rails, JavaScript, Ruby, jQuery, Redux, PostgreSQL, Git, HTML5, CSS3, Rspec, SEO

## Projects

### SOLOBNB (React, Redux, Ruby on Rails)

[live site](#) | [github](#)

*Airbnb-inspired single-page application geared toward solo travelers seeking accommodation*

- Integrated Google Maps API with geolocation-based searching to display listings on map.
- Leveraged Rails Action Cable and Redis to manage web socket connections for live messaging.
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable front-end state management that enabled access to messages, reviews, and listing information.
- Implemented custom client-side form validations to avoid unnecessary AJAX requests.
- Optimized database usage and eliminated N+1 queries by using Active Record best practices.
- Connected the Rails back end to Amazon Web Services S3 (AWS) for media storage and organization while maintaining content security with AWS IAM.
- Managed booking CRUD through custom transactional database operations using Active Record and PostgreSQL, including validation logic to identify bookings with overlapping dates.

### SYNESTHESIA (JavaScript, HTML5 Canvas)

[live site](#) | [github](#)

*Audio visualizer and DDR-inspired game that uses uploaded music to generate a custom game*

- Built audio visualizer from frequency data points extracted using Web Audio API.
- Rendered bars of varying heights and colors using HTML5 Canvas in order to depict audio data.
- Developed audio-based algorithm to determine when an arrow lights up, and integrated with keystroke event listeners to continuously calculate the user's score throughout the song.
- Improved UI/UX by changing appearance of arrows when pressed, as a result of user feedback.

## Experience

### BABE

New York, NY

#### News Reporter

Aug 2018 – Dec 2018

- Attracted over 50,000 unique readers per month with articles on digital culture and technology.
- Interviewed over 20 people for a feature article on Subtle Asian Traits, a Facebook meme group.
- Wrote a take on Mac Miller's death that received over 200,000 shares, making it one of the 10 biggest stories from all the biggest news sites (including NYTimes, WashPost, etc) in September.

### BUSINESS INSIDER

New York, NY

#### Travel and Food Reporter

March 2018 – Aug 2018

- Increased website traffic by 10% through optimizing stories for search with strategic SEO terms.
- Captured an audience of over 250,000 readers per month with articles about travel and food.
- Wrote a story about budget airplane seats that received over 500,000 pageviews.