




# Maverick Alzate

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## PROJECTS

### WhereBnb? | Rails, React.js, PostgreSQL

live | repo

*An Airbnb inspired web app*

- Integrated Google Map API to fetch only visible bnbs from backend Rails API
- Added user authentication with BCrypt gem to protect user information
- Leveraged React.js state to reduce requests to the Rails API on the backend
- Utilized Active Record to query database so bnb bookings do not overlap

### Running Mario Bros. | JavaScript, HTML Canvas

live | repo

*A Super Mario themed infinite runner browser game*

- Refined collision detection to distinguish between players' death and kills
- Designed a parallax background to simulate motion
- Connected app to Firebase database to record player high scores

### ROaR-Map | Ruby

repo

*A Ruby wrapper for SQL*

- Added distant relational database associations that simulate SQL joins in object-oriented fashion to match SQL's power

## EXPERIENCE

### App Academy

*Hacker in Residence*

October 2017 - Present

- Lectured in classrooms of +30 students with interactive code demonstrations
- Fielded students' questions throughout lectures and study halls
- Conducted automated tests to assess and grade student proficiency

### Computational Approaches to Modeling Language Lab

*Assistant Researcher under supervision of Professor Nizar Habash*

May 2016 – August 2016, Abu Dhabi

- Developed Arabic-English translation models using the Moses engine
- Analyzed corpora data and Moses output to identify translation patterns
- Evaluated quality of translation using BLEU to establish benchmark accuracy

## EDUCATION

### App Academy

July 2017 - September 2017

- 1000+ hour web development course with <3% acceptance rate
- Focused on Rails, React.js, TDD, Agile, and pair programming

### New York University Abu Dhabi | B.S. in Mathematics

August 2012 - May 2016

- Earned and maintained a full merit academic scholarship (\$280K+)
- Studied abroad in New York and Buenos Aires.

## SKILLS

JavaScript  
Ruby  
Java  
Python  
jQuery  
React.js  
Rails  
CSS 3  
HTML 5  
PostgreSQL  
Heroku  
Git  
AWS  
R  
Matlab  
Latex

## LANGUAGES

English  
Spanish  
Arabic (MSA)  
Arabic (Levantine)