




Maverick Alzate

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PROJECTS

WhereBnb? | Rails, React.js, PostgreSQL

live | repo

An Airbnb inspired web app

- Implemented Google Map API to fetch only visible bnbs for intuitive UX
- Added front and backend authentication with React.js and BCrypt encryption to protect user information
- Leveraged React.js state to reduce requests to the Rails API on the backend
- Utilized ActiveRecord to query database ensuring that 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 the sensation of motion

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

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

New York University Abu Dhabi

Independent Researcher under supervision of Professor Alberto Gandolfi

Feb 2015 – May 2016, Abu Dhabi

- Posed and developed problem for year-long research in probability theory
- Assisted in the formulation of probabilistic methods and proofs

EDUCATION

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.

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

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)