

# Hamilton Sands

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## PROJECTS

**WaveForm** (React, Redux, Rails, AWS) [Live](#) | [Repo](#)

*A single page website inspired by SoundCloud*

- Uses AWS for mp3 storage, enabling quick retrieval of larger files and providing for scalability
- Created modular code for components linked to the SSOT, allowing them to be featured an arbitrary number of times on screen
- Implemented React Router for intrasite url changes, permitting continuous playback when navigating

**AmoeBoi** (JavaScript) [Live](#) | [Repo](#)

*A become-the-largest type game akin to agar.io*

- Designed a custom physics engine to handle absorption rates, acceleration, collisions, etc.
- Built a quadtree to store all objects on the field, bringing collision detection efficiency to  $O(n \log n)$  on average

**StrongORM** (Ruby, SQLite) [Repo](#)

*An Object Relational Mapping system built over SQLite*

- Includes CRUD operations and object associations
- Implements chainable queries and lazy queries to increase efficiency

## EXPERIENCE

**The Paris Theatre**

*Service Associate*, December 2016 – October 2017

- Performed daily maintenance on theatre equipment and maintained theatre cleanliness
- Handled register and canvassed for donations

**David Sands Designs**

*Draftsman*, June 2016 – October 2017

- Drew layouts/elevations using AutoCAD
- Created 3D models using SketchUp

**Lab in Learning and Representation in Cognition**

*Lab Technician*, June 2014 – June 2016

- Coded implementations of a multichannel auto-encoding neural network (DIVA)
- Optimized neural network parameters to best replicate human classification behavior from classic experiments

## EDUCATION

**App Academy**

Nov 2017 - Feb 2018

- 1000+ hour full stack web-development program with < 3% acceptance rate
- Curriculum includes Rails, SQL, JS, React, Redux, algorithms, and design patterns
- Emphasizes best practices and pair-programming exercises

**SUNY Binghamton**

Sep 2012 - May 2016

- B.A. Psychology
- GPA: 3.54 Cum Laude

## SKILLS

Ruby      Ruby on Rails

RSPEC    JavaScript

jQuery   React

SQL      Flux (Redux)

HTML5   CSS3

Git      Octave

