Hamilton Sands

Github: https://github.com/1stepremoved
LinkedIn: https://www.linkedin.com/in/hamilton-sands/
Portfolio: http://www.hamiltonsands.com/

hamiltonbsands@gmail.com
300 E 46 ST, Apt 16D
New York, NY 10017
(917) 841-9676

PROJECTS

WaveForm *(React, Redux, Rails, AWS)* Live | Repo
A single page website inspired by SoundCloud
- Leveraged 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
- Handled register, performed crowd control, 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

Stuyvesant High School
Sep 2008 - Jun 2012

SKILLS

Ruby	Ruby on Rails
RSPEC	JavaScript
jQuery	React
SQL	Flux (Redux)
HTML5	CSS3
Git	Octave