

Hamilton B Sands

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PROJECTS	WaveForm <i>React, Redux, Rails, AWS</i> Live Repo <i>A single page website inspired by SoundCloud</i> <ul style="list-style-type: none">• Leveraged AWS for mp3 storage, enabling quick retrieval of larger files and providing for scalability• Preloads audio content to provide stable playback despite potential network interruptions• Implemented React Router for intrasite url changes, permitting continuous playback when navigating
	AmoeBoi <i>JavaScript</i> Live Repo <i>A become-the-largest type game akin to agar.io</i> <ul style="list-style-type: none">• 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(nlogn) on average
	StrongORM <i>Ruby, SQLite</i> Repo <i>An Object Relational Mapping system built over SQLite</i> <ul style="list-style-type: none">• Designed to reproduce the functionality of ActiveRecord from• Includes CRUD operations and object associations
SKILLS	JavaScript, jQuery, React, Redux, Ruby, Ruby on Rails, RSpec, PostgreSQL, HTML5, CSS3, Git, Octave
EXPERIENCE	Service Associate <i>The Paris Theatre</i> Dec 2016 – Oct 2017 Performed daily maintenance on theatre equipment. Handled register, performed crowd control, and canvassed for donations.
	Draftsman <i>David Sands Designs</i> Jun 2016 – Oct 2017 Drew layouts/elevations using AutoCAD. Translated 2D layouts into 3D models using SketchUp.
	Lab Technician <i>Lab in Learning and Representation in Cognition</i> Jun 2014 – Jun 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. 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