


Hamilton B Sands

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EXPERIENCE

Fullstack Software Engineer • Publicis Media/RUN

Jul 2018 – Present

Develop a portal for a demand-side platform (DSP) delivering multi-million dollar ad campaigns

- ❖ Build a React/Redux app for in-house ad-operations teams and later self-service clients
- ❖ Develop and maintain a Rails/Mongoid API integrating with SideKiq, Redis, Elasticsearch, AWS S3, and bidder/banker APIs
- ❖ Optimized landing page performance by over 400% by aggregating inconsistent hourly ETL transfers with scheduled cron jobs monitored using DataDog
- ❖ Implemented a role-based user permissions system providing tiered access to resources and user management for team leads
- ❖ Created a sophisticated geolocation targeting tool with MapboxGL rendering thousands of geo-shapes and handling user-specified point-radii
- ❖ Write comprehensive test suites using RSpec and Jest for unit tests and Capybara with Selenium for feature tests
- ❖ Collaborate with product to develop bulk-workflow tools for campaign managers saving 40+ hours of data entry per week
- ❖ Use D3 and Material-UI to craft custom data visualizations and build stylish components

Draftsman • David Sands Designs

Jun 2016 – Oct 2017

Drew layouts/elevations using AutoCAD. Translated 2D layouts into 3D models using SketchUp

Lab Technician • Lab in Learning and Representation in Cognition

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 previous experiments

PROJECTS

AmoeBoi | JavaScript • Webpack

[Repo](#) | [Live](#)

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

- ❖ Designed a custom physics engine to handle absorption rates, acceleration, collisions, etc.
- ❖ Utilized a quadtree to store all objects on the field, optimizing the collision detection algorithm

WaveForm | React • Redux • Rails • AWS

[Repo](#) | [Live](#)

A single page website inspired by SoundCloud

- ❖ Leveraged AWS S3 for quick retrieval of large mp3 files and future scalability
- ❖ Maintained stable playback during network interruptions by preloading audio content

SKILLS

JavaScript ES6+ • React • Redux • Ruby • Ruby on Rails • Webpack • MongoDB • PostgreSQL • D3 • HTML5
• CSS3 • RSpec • JEST • Selenium

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 – May 2012