

ANDREW MACIVER



1117 Peralta St. Oakland, CA

WEBSITE

andrewmaciver.me

MOBILE

+1 (440) 935-2263

EMAIL

maciver.andrew@gmail.com

GITHUB @amaciver

SKILLS

Ruby
Rails
JavaScript

ReactJS
HTML5
CSS3

Redux
Git
RSpec

Arduino
sciPy
Adobe

PROJECTS

COUCHSMURFING

Live |

Sole Developer

Ruby on Rails

PostgreSQL

React/Redux

Rapidly developed full-stack single page app that allows users to book stays with their favorite 80's cartoon characters

- Implemented intuitive bookings modal and checked overlapping bookings in the SQL database
- Built predictive React search bar component to pre-fetch and navigate the range of cities
- Compiled large set of compelling seed data to increase user enjoyment

AUDIOFILER

Live |

Co-Developer

Django/Python

React/Redux

TensorFlow/sciPy

Machine learning song classifier that queries Spotify for songs to run against our trained model

- Compiled custom dataset of 55,000 songs with genres to train Random Forests and Neural Nets
- Implemented Spotify API and pyAudioAnalysis to download and analyze songs into 70 features
- Built custom frontend with responsive fuzzy search and animated CSS loading graphic

STOCHASTEROIDS

Live |

Sole Developer

Vanilla JS

Web Audio API

CSS3

Created original web-based generative music and visual experience

- Wrote own momentum physics calculations and collision detection
- Implemented Web Audio interface and audio graph without external library
- Utilized Markov matrices to evolve the sound while also making tools accessible to users

AIRSHIP PROJECT

Live |

Project Lead

Arduino

Max/MSP

Processing

Interactive electronic sculpture funded by grant from Zero1 arts network

- Designed entire project from initial concept and grant proposal, to coding, wiring, and installation
- Programmed sound synthesis, control logic, and video content providing engaging user experience
- Fabricated the sculpture's super-structure and electronic components, and built custom PC

EXPERIENCE

TUTOR

GiftedandTalented.com

SF, CA

2016-2017

- Tutored advanced Calculus, Physics, and Computer Science in online environment
- Managed and mentored caseload of over 50 students of many ages and learning styles
- Developed and led exploration classes in topics including fractals and Big-O complexity
- Authored math content and beta-tested online management and teaching tools that improved tutors' ability to communicate concepts to students

TUTOR

Compass Education

Marin, CA

2013-2017

- Provided private instruction in Test-Prep for SAT, ACT, GRE, and AP courses, including Calculus, Physics, Computer Science, French, and English
- Led highly-attended classroom courses in SAT prep with up to 50 students
- Authored new content in multiple subject-areas as part of the curriculum workshop group that was used by over 60 tutors company-wide

FOUNDER

Paleo Performance

SF, CA

2015-2017

- Launched food startup specializing in Paleo Diet food products
- Developed and tested all recipes and conceptualized core brand, images, and mission statements
- Set up technical infrastructure including website, accounting platform, and business licenses
- Interfaced with industrial partner to develop scaled-up manufacturing process of the products

EDUCATION

APP ACADEMY

May 2017

- Full-Stack Web Development, Ruby, Rails, JS, ReactJS, SQL
- Intensive program, <3% acceptance

OBERLIN COLLEGE

2006

- BA, French Language and Literature
- Focus on linguistics, film, and generative poetry

OBERLIN CONSERVATORY

2006

- BMus, Music Composition
- Studied classical composition, arts technology
- Wrote and produced orchestral, choral and chamber music, and interactive electronic music

LE CORDON BLEU

Paris, 2007