



JACOB BUTLER

SOFTWARE DEVELOPER

CONTACTS



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SKILLS

JavaScript
React.js/Redux
Ruby on Rails
SQL
PostgreSQL
Git
SCSS
HTML/CSS
AJAX
jQuery
TDD (RSpec, Jasmine)
Solidity (learning)
Algorithms

EDUCATION

App Academy
San Francisco, CA
Oct 2017 - Jan 2018

Bachelor of Science
University of Maryland
College Park, MD
Physics, Leadership -
2011 - 2015

LANGUAGES

English
Spanish (proficient)

PROJECTS

SofaSurfer - React.js, JavaScript, Ruby on Rails [Live](#) [GitHub](#)

A RESTful, single-page clone app with React Architecture and JSON API

- Ensures database security by validating user authentication using BCrypt
- Implemented comprehensive search and filter features by querying Database with AJAX requests
- Engineered efficient data storage design by limiting depth of state

Nonsense - Solidity, Web3, React.js, Ethereum [Live](#) [GitHub](#)

A diamond marketplace built on the Ethereum blockchain

- Ensures user authentication by creating a truffle authentication object and checking for an Ethereum wallet using web3
- Smart Contracts (written in Solidity) enable users to conduct product transactions by exchanging ether between the wallets of the buyer and the seller
- Using an API within a Smart Contract, this app displays live currency exchange rate between USD and ETH for posted prices of products

Reddit Reader - React.js, JavaScript, API [GitHub](#)

A RESTful, single-page app utilizing reddit API on React Architecture

- Responsive search feature employs AJAX requests to reddit server to customize user feed
- Adjust AJAX request url by toggling filters on the user interface

Object Permanence - JavaScript, Canvas [Live](#) [GitHub](#)

An addictive survival-based game inspired by Phoenix.

- Optimized responsiveness by utilizing vanilla JavaScript
- Realistic physics engine governs gameplay by utilizing the kinematic equations for object acceleration over time
- Responsive Artificial Intelligence adapts gameplay based on user inputs

EXPERIENCE

Research Assistant (University of Maryland, 2013)

- Data analysis utilizing MATLAB to analyze plasma beam data.
- Developed program simulating plasma beam data in a 1-D plane

Facilitator (Pacific Quest, 2016 - 2017)

Practiced adaptive leadership in a variety of immersive settings.

- Cultivated life-changing experiences for young adults in a therapeutic wilderness setting
- Integrated Rites of Passage and horticulture to facilitate sustainable life skills in a clinically innovative and nurturing environment
- Innovated and lead therapeutic group lessons for lead guides

Adventure Trip Leader (University of Maryland, 2012- 2016)

Solved technical and non-technical problems by utilizing communication, risk management, and judgment.