



# JACOB BUTLER

SOFTWARE DEVELOPER

## CONTACTS



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## SKILLS

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

## 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 [Live](#) [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.