



# JACOB BUTLER

SOFTWARE DEVELOPER

## CONTACTS



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## SKILLS

Angular6  
NodeJS  
TypeScript  
JavaScript  
React.js/Redux  
Ruby on Rails  
SQL/PostgreSQL  
InfluxDB  
MongoDB  
Docker  
HTML/CSS/SCSS  
AJAX  
TDD (RSpec, Jasmine)  
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)

## EXPERIENCE

### Full-Stack Software Engineer (Sunlink, Jun 2018 - present)

- Collaboratively design architecture for web app (Vertex) to enable bidirectional communication between site users and remote Solar Farms.
- Engineer UI and API of Vertex with respect to two unique DBs: Mongo and Influx.
- Work in 2 week sprint cycles, identifying goals and creating manageable action items to accomplish them in that timeframe.
- Lead front-end development and UI/UX design, while spending 30% of time on backend responsibilities.

### Research Assistant (University of Maryland, 2013)

- Analyzed plasma beam data by writing a program in MATLAB to simulate ion movement in a 1-D plane

### Facilitator (Pacific Quest, 2016 - 2017)

- Practiced social-change and relational leadership in varying immersive settings.
- Cultivated life-changing experiences for young adults (18-25) in a therapeutic wilderness setting by integrating Rites of Passage, horticulture, and dialogue.
- Integrated Rites of Passage and horticulture to facilitate sustainable life skills in a clinically innovative and nurturing environment
- Innovated and lead therapeutic group lessons on for lead guides

## PROJECTS

### Vertex - Angular6, NodeJS, Mongo, Influx, D3.js [Live](#)

A RESTful, single-page web professional app built for Sunlink, inc.

- Architected full-stack of technologies for time-based data and models
- CI system uses kubernetes, docker, minikube, unit & integration test, peer code reviews, staging & prod sites
- Display pertinent solar site data leveraging d3 for line, pie, misc. charts
- Construct user admin roles to decide which site data/functions are accessible
- UI/UX Design based on feedback from clients, then implemented collaboratively with input from Product Manager.
- Bidirectional communication between remote solar farms and web app

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

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

- Designed database security with user authentication leveraging BCrypt
- Implemented comprehensive search and filter features by querying Database with specific AJAX requests
- Test Driven Development of Front End (Jest) and Back End (RSpec)
- Engineered efficient data storage design by limiting depth of state

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

A diamond marketplace built on the Ethereum blockchain

- Designed user authentication by creating a truffle authentication object and checking for an Ethereum wallet using web3
- Constructed Smart Contracts that enable users to conduct product transactions by exchanging ether between the transacting wallets
- Including an API call within a Smart Contract displays live currency exchange rate between USD and ETH for posted prices of products