

# ALVIN KONG

SOFTWARE DEVELOPER

San Francisco Bay Area, CA

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## SKILLS

### Languages

Ruby  
JavaScript  
SQL  
Python  
HTML  
CSS

### Frameworks / Libraries

Rails  
RSpec  
jQuery  
React  
React-Router  
Redux  
D3.js

### Expertise

RESTful APIs  
Algorithms  
Data Structures  
MVC  
Flux  
TDD  
Data Analysis  
Data Visualization  
Web Scraping

## EDUCATION

### University of California, Santa Barbara

2014 - B.S. in Physics

### AppAcademy

2017 - Full-Stack Web  
Development

## INTERESTS

Basketball, Hiking, MOBA  
games, FPS game

## PROJECTS

### Betternote

[Live](#) | [GitHub](#)

*A Faithful Evernote clone built using Ruby on Rails + PostgreSQL backend and React + React-Router + Redux in the frontend*

- A single page application where users can take notes, and organize them in notebooks and tags
- Implemented rich-text editing for notes by leveraging the React-Quill library
- Created notes to notebooks and tags associations through ActiveRecord models and carefully planned out React-Redux state slices
- Implemented an auto-save feature by using a timeout that initiates a save on initial key press and gets reset on consecutive key presses

### Smooth

[Live](#) | [GitHub](#)

*An iOS path-finding app built using React Native, Ruby on Rails, and Google Maps API*

- Gathered road network, crime, and elevation data using open source APIs
- Modeled data as a graph to use A\* algorithm to find the shortest weighted path to destination
- Designed mobile UI/UX using React Native and React Navigation

### NBA Snapshot

[Live](#) | [GitHub](#)

*An interactive data visualization of in-game nba statistics developed using d3.js, HTML5, and CSS*

- Features an interactive sunburst plot that allows users to explore and breakdown in-game player to team contributions
- Implemented sunburst's zoom feature by using d3's interpolation and arc tweening techniques

## EXPERIENCE

### Data Analyst

**Apr 2016 - Jun 2017**

*Dailyshoes*

*San Francisco, CA*

- Played key role in inventory replenishment by forecasting sales for products across different marketplaces, saving over 20% in storage fees caused by over and under stocking
- Was key contributor in new products development by creating tools to monitor up-and-coming trends, contributing to the significant increase in consistency of good selling new products
- Wrote robust ETL processes in Python to extract data from various sources to data warehouse
- Developed automated processes to update inventory and price changes across marketplaces
- Created dashboards and reports to monitor business performance and aid in business decisions