



# ARTEM KHARSHAN

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## PROJECTS

*FlyaKite — ROR, React, Redux, PostGreSQL*

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- Implemented a Ruby On Rails powered PostgreSQL backend with custom routes and SQL queries to power front end searching and sorting.
- Designed an account system with authentication and protected routes on the front and backend
- Integrated Cloudinary image hosting, Google Maps, and the Stripe Payment Gateway APIs

*OnionUp —Vue js, Devise, ROR, Tor, Socksify*

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- Utilized Ruby threads to send backend requests concurrently cutting wait times from nearly a minute to a few hundred milliseconds for pingng a list of sites on the Tor network.
- Designed a PostgreSQL database that stores thousands of items of data for every users' site and maintained within storage limits using Heroku scheduler and ROR tasks.
- Used Ruby's Socks Proxy implementation to route requests through a Tor network Node we established

*Compression Visuals — vanilla Javascript, HTML5*

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- Formulated a Quadtree data structure to hold images pixel data extracted using HTML5's canvas
- Recursively calculated the statistical variance of color in different regions of an image to then represent the image more compactly by drawing regions with less color variation with fewer pixels.
- Used Javascript Timeouts and some good old fashioned recursion to animate the process and allow the user to feed in parameters and click on nodes as the algorithm runs

## EXPERIENCE

*Skates on the Bay, Berkeley — Server*

March 2016 - October 2017

- Dedicated teamwork and consistent high end service to hundreds of guests in 4-8 hour shifts.

*Eddie's Liquors, Rockridge —Assistant Manager*

February 2015 - March 2016

- Trained new hires, coordinated deliveries and payments, and set the schedule for a team of 7 employees

## SKILLS

JavaScript  
Ruby  
Rails  
React.js  
Redux  
Vue.js  
jQuery  
SQL  
HTML  
CSS  
Git  
C#  
C++  
MATLAB

## EDUCATION

*App Academy,  
San Francisco*

October 2017 - February 2018

Full Stack development: Ruby,  
JavaScript, Ruby on Rails,  
React/Redux

*Diablo Valley College,  
Pleasant Hill*

August 2010 - June 2015

Calculus, Physics, C++,  
Assembly, Matlab