



## Alex Lizarraga - fullStackDeveloper

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```
{/* Organized, Dedicated, Collaborative and Efficient Full stack web  
developer with a passion for details and new technologies. Prototyped over  
20 personal MERN projects last year, Eager to join and contribute to an A+  
developer team to exceed the customer's expectations. */}
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## Key Skills:

Front-End and Back-End Development, Agile Methodology, Code Optimization , Client Relationship Management, Project Management, Requirement Gathering, Issue Resolution, Team Leadership, Prototyping

## Technical Skills

**Frameworks:** ReactJS, Redux, React Native, Expo, HTML5, NodeJS, Websockets, PassportJS, JQuery,Ajax,Bootstrap, MaterialUI, React Native Elements

**Databases and Storage:** MySQL, MongoDB, Firebase, AWS storage.

**APIs:** Google Vision, IBM Watson ,Square, Paypal,Twilio.

**Scripting Language:** Javascript

**Additional Languages:** Python, C++

**Versioning:** GitHub

**IoT - prototyping:** Raspberry Pi, Arduino

## Experience

**Machinery Pal** - <https://www.machinerypal.com/> - January 2020 to present

- ▶ **Description:** Equipment and fleet listing tool that simplify the process of selling and buying for both clients and businesses, focused on simple forms, quick equipment upload/edit/delete for admins, easy and fast navigation with the goal of quickly connect potential customers to businesses.
- ▶ **Environment:** Javascript, NodeJS, MongoDB, ReactJS, Redux, Material UI, React Native, React Native Elements, Expo, AWS S3, Nodemailer
- ▶ **Duties:**
  - ▶ Independently Conceptualized, Designed, Developed A-Z components and filters.

- ▶ Designed and Implemented reusable components in a modular ReactJS way, using ReactHooks for the webApp and React Native for the mobile app.
- ▶ Designed and implemented the API and created reusable middleware to interact with passportJS, cookie-sessions, mongoDB and S3 buckets.
- ▶ Implemented a signin/signup/recover password/logout system using passportJS with local and google strategies.
- ▶ Integrated Nodemailer.
- ▶ Integrated AWS S3 buckets to store images.
- ▶ Integrated square API payment system.

## Vehicle Logger - October 2019 to present

- ▶ **Description:** Web and mobile app that logs in/out vehicles from a rental fleet, records vehicle information, photos and update statuses based on events, using id visual recognition to reduce the log time without the need to scan or standardize bar codes or QR codes.
- ▶ **Environment:** ReactJS, Javascript, Material UI, React Native, React Native Elements, Expo, NodeJS, MySQL, AWS S3, Google Vision, Crypto, Nodemailer
- ▶ **Duties:**
  - ▶ Independently Conceptualized, Designed, Developed and tested the project focused on quality, modularity and reusability of code using reactJS for the frontend, React native for the mobile app, and Nodejs for back end.
  - ▶ Engineered dynamic components for the project & created customized camera frames, forms and swipe gestures for the mobile app using react native and expo libraries.
  - ▶ Integrated Google Vision API and implemented an image ID searching tool on both mobile and web app.
  - ▶ Integrated AWS S3 buckets to store images.

## Baby Alarm (Prototype with Raspberry Pi) - April - September 2019

- ▶ **Description:** Prototype device that uses the capabilities of Raspberry Pi along with a temperature, IR movement, sound and Digital sensor to autonomously trigger alarms, call and text location to emergency contacts if it detects extremely High or Extremely low temperatures inside a car while a baby (or pet) is detected inside a car. The device can be monitored through a mobile app.
- ▶ **Environment:** ReactJS, Javascript, Material UI, React Native, React Native Elements, Expo, React Websockets, NodeJS, MySQL, Crypto, Twilio, RPI-GPIO, Websockets
- ▶ **Duties:**
  - ▶ Designed a prototype device, using Raspberry Pi, Temperature, IR movement, sound and Digital sensor.
  - ▶ Implemented nodeJS server on RPI that communicates efficiently to a paired mobile phone through websockets.

- Integrated temperature, movement and sound sensor through RPI-GPIO and designed the communication algorithm to log events efficiently to prevent fake alarms.
- Designed the mobile app using React Native
- Designed the test tool for the nodeJS server to monitor all connected devices are working properly.

## Loan Scheduler - January - march 2019

- **Description:** Loan Scheduler that emails the user before the Loan payments are due, created to handle all users loans in a single portal with the ability of changing payment dates, add loan description and keep payment history of every loan.
- **Environment:** ReactJS, Javascript, Material UI, NodeJS,MySQL, Crypto, NodeMailer
- **Duties:**
  - Designed and Implemented an efficient Loan Scheduler Frontend and backend.
  - Implemented an efficient custom form that reduces the requests to the server by 80% using React Forms and local storage.

## Open Source Portfolio -June - September 2018

- **Description:** Open source fully customizable online portfolio.
- **Environment:** ReactJS, Javascript, JQuery, Bootstrap
- **Duties:**
  - Developed and designed a open source, fully modular and easy to manage portfolio using reactJS

## Katenna - <https://testkatena.herokuapp.com/> - October 2017 - June 2018

- **Description:** Business Tool to keep all the corporate knowledge that leaves the company once an employee leaves a position,. This app logs the employee duties and keeps track of the performance of the employee while using the app, additionally recommends the next duties to complete. Once an employee leaves a position the app can be used to train a replacement.
- **Environment:** ReactJS, Javascript, JQuery, Bootstrap, Material UI, React Native, React Native Elements, Expo, NodeJS, MongoDB, Crypto
- **Duties:**
  - Lead a team of 4 developers to execute a project and achieved delivery of all project deliverables in an effective and quality oriented manner.
  - Developed REST APIs with reusable modular code & libraries to streamline future development.

## Code Listener - <https://thecodelistener.herokuapp.com/> - February - February 2018

- ▶ **Description:** Hackathon personal project that uses speech commands to build HTML components and display its code to the user.
- ▶ **Environment:** Javascript, JQuery, Bootstrap, NodeJS, IBM Speech recognition.
- ▶ **Duties:**
  - ▶ Developed a code listener app in about 24 hours FIU hackathon.
  - ▶ Integrated IBM Watson Speech Recognition into a Webapp.
  - ▶ Created an algorithm with preset commands that uses IBM recognized speech to display HTML components along with its code. Also created a target system which uses certain keywords to target components already created and modify them along with the displayed code.
  - ▶ Deployed web app using Heroku

## Recipe Finder - November 2017 - January 2018

- ▶ **Description:** Recipe finder that uses a phone to take an ingredient photo and finds recipes including the ingredient.
- ▶ **Environment:** Javascript, JQuery, Bootstrap, NodeJS, IBM Watson Visual Recognition, Firebase, Imgur, Yummly API, Wikipedia API
- ▶ **Duties:**
  - ▶ Lead a team of 3 developers to execute a project and achieved delivery of all project deliverables in an effective and quality oriented manner.
  - ▶ Integrated IBM Watson Visual recognition to interact with Imgur, Yummly, Wikipedia and Firebase API.
  - ▶ Efficiently implemented an image upload module that uses both input form or camera when using the app on a mobile device without using external libraries.
  - ▶ Deployed web app using Heroku

## Education

University of California, Los Angeles - B. Eng.

University of Miami, Fullstack Web development program

Udacity C++ Developer Nanodegree

Udacity Deep Learning Developer Nanodegree

## Relevant Links

Leetcode: <https://leetcode.com/buddyeorl/>

Hackerrank: [https://www.hackerrank.com/alexdatavault?hr\\_r=1](https://www.hackerrank.com/alexdatavault?hr_r=1)

Github: <https://github.com/buddyeorl>

Portfolio: <https://alexdatavault.herokuapp.com/>

## Awards

US Top 50 @ Moody's Analytics Hackerrank 2018 competition - August 2018

Best Use of technology for What The fork - recipe finder - January 2018

## Hobbies

- Fridge Magnet Collector: currently own over 100 magnets of all different cities/countries I've visited in the last 5 years.
- Photography: getting around with a DSLR and a 35mm portrait lens is all you need to capture amazing moments.
- Taste Adventurer: know a new place by tasting its food