

# Shain Carrasco

Full Stack Software Engineer

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## Technical Skills from proficient to familiar

Client-Side: **JavaScript ES6, HTML5, CSS3, React16, jQuery**, Redux, D3, Chart.js  
Cloud: **Node.js, Express, RESTful API development, AWS services**, Heroku  
Database: **MongoDB, Mongoose, Cassandra, MySQL, PostgreSQL, Sequelize**, SQLite3  
Dev Tools: **Git, Webpack, Babel, NPM, Grunt, Postman, Axios**, TablePlus, Redis, Nginx  
Testing: **Mocha, Chai, Faker, Artillery, Loader.io**, New Relic, Jest, Enzyme

## Applications created from scratch as part of the Hack Reactor curriculum

### AudioStorm | Spring 2020 | *Software Engineer in Agile team*

React, Node.js, Express, Cassandra, MongoDB Atlas, PostgreSQL, AWS, Nginx, Redis

*Audio distribution platform and music sharing website* [github.com/Aldebaran-SDC/Primary-Player](https://github.com/Aldebaran-SDC/Primary-Player)

- Built the user microservice and proxy server to coordinate the 3 distinct microservices based in SOA (Service Oriented Architecture)
- Designed RESTful APIs as part of a 3 person agile team to reduce code duplication & server processing time
- Upgraded the primary-player microservice DBMS from MongoDB to Cassandra for resiliency during load testing, and increased its primary records from 100 to 10M unique records
- Optimized the backend, horizontally scaling AWS Ec2s with an Nginx load balancer, 15 app servers, Redis caching, and a Cassandra cluster of 3 nodes.
- Stress tested the primary-player microservice after horizontal scaling, determining it could handle 3800 RPS, with 130 ms average latency, and < 1% error rate

### YourTube | Fall 2019 | *Software Engineer pair programming* | React, Redux, Node.js

*Search for and display videos utilizing the YouTube API* [github.com/Shain-Carrasco/YourTube-Redux](https://github.com/Shain-Carrasco/YourTube-Redux)

- Created the UI for dynamically generated video search results based on live query input with functional autocomplete
- Designed using Test Driven Development

### Metronome | Winter 2019 | *Software Engineer solo* | React, Node.js, Express, MongoDB, Mongoose

*Musicians' application for perfecting rhythm skills* [github.com/Shain-Carrasco/Metronome](https://github.com/Shain-Carrasco/Metronome)

- Produced an unusually wide range of tempo options with a pleasing woodblock tone
- Keeps a permanent record of tempo for each piece annotated

## Other Experience

**Professional Cellist** *Santa Cruz Symphony, Berkeley Symphony, California Symphony and various others* **2000-2020**

- Strong team player, able to perform under pressure with precision and artistry

**Cello Teacher** *Private Studio, Crowden School of Music (Berkeley), CSMA (Mt View) and various others* **2000-2018**

- Effective communicator, with a passion for teaching and learning

## Education

<b>Hack Reactor Galvanize</b>	Advanced Software Engineering Immersive Program - Remote	<b>2020</b>
<b>San Francisco Conservatory of Music</b>	Master of Music in Cello Performance	<b>2002</b>
<b>University of North Carolina School of the Arts</b>	Bachelor of Music in Cello Performance	<b>1999</b>