


# Nicholas Char

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## SKILLS

Ruby	React	JavaScript	HTML5	Git	RSpec
Rails	Redux	jQuery	CSS3	SQL	TDD

## PROJECTS

**Cahootz** (*Rails, PostgreSQL, React, Redux*)

**live | github**

*A Single-page Web Application for collaborative group messaging, inspired by Slack*

- Implemented seamless real-time messaging, updates, and bi-directional functionality via Websockets and Pusher API.
- Handled complex, dynamic data requests and simplified application logic by utilizing Redux architecture and pure functions to maintain a strict unidirectional data-flow.
- Interfaced app with RESTful JSON API on back end to streamline data-flow.
- Standardized form validation with single, modular component, allowing for DRY code.
- Hand-rolled user-authentication and session management utilizing BCrypt.

**GentriPages** (*JavaScript*)

**live | github**

*Data visualization that explores income inequality and gentrification in Philadelphia.*

- Utilized lightweight mapping library to make app more performant.
- Increased efficiency by coaxing data into GeoJSON.

**FiefDOM** (*JavaScript*)

**live | github**

*DOM manipulation library written entirely in vanilla JavaScript*

- Implemented intuitive traversal and manipulation of the HTML elements by abstracting browser DOM API into JavaScript objects.

## EXPERIENCE

**Vericant** - *Operations Associate, Interviewer*

**Aug. 2014 – March 2016**

*Vericant is a small ed-tech start-up that partners with US schools/colleges to identify best-fit Chinese applicants via verified video interviews, proctored writing samples, and spoken English evaluation.*

- Managed translation and subtitling process, dynamically deploying internal and external resources to ensure successful delivery of 1500+ student interviews.
- Identified and documented operational bottlenecks, overhauled internal quality review practices, reducing processing errors by 80%.

## EDUCATION

**App Academy** - *Software Engineering*

**May 2017**

- Immersive 1000-hour software development program ( < 3% acceptance rate ) with emphasis on data structures, algorithms, latest technologies (React/Redux), TDD, pair-programming, and best practices.

**Beijing Normal University** - *M.A. in Public Policy*

**June 2015**

- Course Highlights: Statistics, Research Methods, Public Policy Analysis

**Oberlin College** - *B.A. in East Asian Studies; minor in Computer Science*

**May 2013**

- Course Highlights: Principles of Computer Science, Data Structures, Discrete Math, Systems Programming, Programming Abstractions, and Machine Learning
- Cumulative GPA of 3.80; in major GPA of 3.94; Honors: Phi Beta Kappa