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 and bi-directional functionality via Websockets and Pusher API.
- Interfaced app with RESTful JSON API on back end to streamline data-flow.
- Standardized form validation with single, modular component, allowing for DRY code.

GentriPages *(JavaScript, jQuery, Leaflet.js)*   **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**

Lightweight DOM manipulation library demonstrated with the classic game Snake.
- 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 video interviews, and spoken English evaluation.
- Led translation and subtitling team, 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