

# Vanessa Chen

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**SKILLS** Ruby, Rails, JavaScript, React, Redux, PostgreSQL, MongoDB, Express.js, Node.js, HTML, CSS, D3.js, jQuery

## EXPERIENCE

### Technical Instructor

*App Academy - San Francisco, CA*

Apr 2019 - Present

- Teach foundational Ruby OOP concepts including scope & references, TDD, debugging, and class interactions
- Host office hours for 70+ incoming students, review daily project solutions, coach students in one-on-one sessions

### Senior Consultant

*Deloitte Consulting LLP - Boston, MA*

Jan 2012 - Sep 2017

- Led Project Controller's regional growth strategy, successfully expanded services across advisory and tax, launched 3 new service offerings and grew portfolio to cover 7 of the region's largest accounts
- Created best practices to implement nationally, designed tests to gather feedback and identified areas of improvements for our standard reporting tools and templates that led to a 10% efficiency gain
- Headed local office talent development, trained and supervised a team of 7 across US and India offices, developed new hire curriculum, facilitated annual firmwide project economics roundtables
- Utilized data models to track key performance metrics; leveraged data to identify risks, analyzed trends, managed budget and forecast reconciliations and drafted weekly reports to project leadership, providing key insights and strategy recommendations

## PROJECTS

**Pick-A-Table** (Rails, Ruby, ReactJS, Redux, PostgreSQL) | *Sole Developer*

[live](#) | [github](#)

*A restaurant reservation web application, inspired by OpenTable*

- Designed RESTful backend server to enable persistent storage of restaurants and reservations
- Prioritized data normalization to work efficiently with CRUD operations by opting for a relational database to reduce data redundancy and improve data integrity
- Implemented client-side search and filtering of restaurant attributes utilizing state changes to allow for instantaneous results, optimizing for a smooth UI and minimizing need for API server calls

**Phacer** (MongoDB, Express.js, Node.js, JavaScript, ReactJS)

[live](#) | [github](#)

*A single-player 2D car racing game using Phaser game framework*

- Incorporated collision detection algorithm for sprite characters to create racetrack canvas and racecar character
- Added keystroke event listeners for controlling of player direction and movement, capturing current player's time in local state
- Designed backend using MongoDB to store user and timer objects; used BCrypt for password hashing
- Implemented user authentication with Passport.js and JWT to store state on client side

**BasketballViz** (Ruby, JavaScript, D3.js, HTML5/CSS) | *Sole Developer*

[live](#) | [github](#)

*A dynamic and interactive data visualization of the evolution of the NBA 3-point shot using D3.js*

- Utilized SVGs to represent a scatter plot and appended different categories of datasets using pre-built D3 functions to create a visual representation of players' statistics
- Attached event handlers to DOM elements to add or remove elements based on user selection, creating a seamless transition of data points between team and season filters
- Implemented own web scraper using the ruby nokogiri gem to parse HTML elements based on class identifiers to retrieve player statistical data and formatting it into appropriate JSON objects

## EDUCATION

App Academy - 2019 - Immersive software development course with focus on full stack web development

University of California, Davis - *BS magna cum laude Managerial Economics, 2011*