ANDREW ZESSAR

(847) 239-0645   akzessar@gmail.com Chicago **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, R, Webpack, jQuery, Git, Heroku

PROJECTS

Reztaurant (Ruby, Rails, JavaScript, ReactJS, Redux, Webpack)   live | github

An OpenTable-inspired website allowing users to search fictional restaurants and make fictional reservations and reviews

- Created PostgreSQL database (via Ruby on Rails framework) to store interacting tables of users, restaurants, reservations, and reviews, taking into account columns such restaurant cuisine, reservation date/time, and review star-rating
- Employed ReactJS to organize components and frontend routing, allowing users to search for restaurants by various attributes, visit restaurant "show" pages, and view an indexed list of their booked reservations
- Stored images and other essential data through Amazon Web Service's S3 cloud storage system, essential for site scalability and completing efficient media queries

EtymoloGenius (JavaScript, Webpack, AM Charts)   live | github

A web application that maps a word's etymology and progression to English on a globe

- Leveraged the Oxford English Dictionary API to extract definitions, etymologies, and pronunciations from user search-input
- Wrote algorithms that parsed input data, finding languages, demonyms, and other keywords to link entry words to applicable countries in correct chronological order, necessary for populating the globe's route
- Utilized AM Charts to track coordinates, animate globe rotations, and animate paths connecting relevant countries

Am I The Moral One? (MongoDB, Express.js, ReactJS, Node.js)   live | github

An application allowing users to compare their answers to controversial questions with the general populace

- Deployed Node.js to make API calls to database that housed models for users, questions, quizzes, and answers, allowing users to both create their own quizzes as well as answer other users' quizzes
- Used Recharts to render aggregate data with on-click animations, giving users a graphical representation of their results
- Collaborated with classmates to build Mongo database, providing information for Redux state, simplifying database queries

EXPERIENCE

Senior Pricing Analyst

United Airlines   *Jan 2018 - Jun 2020*

- Utilized SQL, R, Excel, and several econometric methods to develop price optimization tests for Basic Seating Assignment and Preferred Seating Assignment, raising revenue per flyer over one dollar and total revenue by tens of millions per year
- Implemented a data-driven revenue-maximizing test concept, taking into account factors such as mileage, market, and equipment type that management eventually applied to all forms of ancillary seating revenue
- Led pricing team and collaborated with IT in implementation of Preferred Seating and International Basic Economy products
- Collaborated with merchandizing team to combine pricing and marketing test strategies; initiated tests that increased take-rates for seating products over 30% while maintaining steady revenue
- Mentored a team of junior analysts and interns, teaching airline basics related to pricing and revenue management

EDUCATION

Web Development - App Academy   *Fall 2020*

Software development intensive in full-stack web development, including 1000+ hours of coding

BA - Northwestern Univ.; ***Economics***, ***Mathematical Methods in the Social Sciences (major accepts < 40 students/year)*** *Spring 2016*

- Honors Thesis: Collaborated with the NYPD Office of Management Analysis and Planning to quantify the relationships between drug crime and subsequent violent crime; analyzed over 3,000,000 points of arrests in evaluation of the NYPD's drug crime policy in each of NYC's 76 precincts; **2016 Dacey Prize Winner** (awarded to author of the major's best thesis)

MISCELLANEOUS

Other Skills: Spanish (semi-fluent: conduct basic business), Mandarin (basic: order food/shop), GarageBand, creative writing, piano
Other Interests: entrepreneurship, campaign volunteering, tennis, marathon running, basketball, *Jeopardy!*, sketch comedy