

# EMRE ERSOLMAZ

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**SKILLS:** React, Redux, Ruby, Rails, JavaScript, SQL, SQLite3, PostgreSQL, HTML, CSS, Tableau, AWS

## PROJECTS:

**INDEPENDENTCAMP** Ruby on Rails, React, Redux, AWS S3

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

A single-page clone of Bandcamp, an app which allows fans to purchase music directly from artists

- Created distinct user experiences for fans and artists by establishing user\_\_types in the Rails-PostgreSQL configuration, which were coupled with React components on the front-end configured to render components customized to each user experience.
- Integrated AWS with Active Storage to store audio and image elements on the cloud, reducing server load and allowing the app to scale gracefully.
- Utilized HTML5 media elements for audio playback triggered by a custom event handler that loads the audio source from respective song elements in the front-end state, designed to contain only necessary media URLs to prevent overloading on client-side.

**INTELLIGENT IB** Ruby, JavaScript, D3

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

A data visualizer for initial public offerings on U.S. stock exchanges

- Built a custom scraper tool using Nokogiri gem in Ruby to traverse HTML nodes of 424B4 SEC filings and retrieve offering information based on node type or style. The scraper would then process the retrieved data into JSON for seamless integration with JavaScript methods
- Generated autocompleting search bars for intuitive data filtering and user experience.
- Utilized D3 library to create interactive bar, column and pie charts displaying information like underwriting fees in a particular sector, issuance volume in a particular year, top underwriters for an IPO.

## EXPERIENCE:

### Consulting Associate

Freeman Consulting Services at Freeman & Co

Jan 2017 - Apr 2019

- Led a team of 3 Analysts developing tactical solutions on client-prioritization, market sizing, revenue growth strategies, and product/industry diversification for clients in the investment banking industry.
- Spearheaded the development of the firm's periodical deep-dive reporting modules for its clients, creating tailored performance metrics for product and sector groups. These modules contained custom SQL queries embedded into Excel or Tableau for total automation and scalability.
- Collaborated with senior management in improving and maintaining Freeman's proprietary algorithm to estimate investment banking fees.
- Developed a predictive model for a top healthcare-focused investment bank to identify firms that would need financing in the short/medium term. The model used a variety of data items from company balance sheets and income statements and processed them into inputs for the model like stock price change since IPO, cash-burn rate or equity research attention. Recommended focus firms paid \$70m to the client within the next 1.5 years
- Identified the disconnect between ECM and M&A franchises of a diversified full-service independent investment bank, which was leaving \$40m per year on the table by not exploiting cross-selling synergies
- Evaluated the costs/benefits of an acquisitive revenue growth strategy for a regional bank seeking to expand its M&A franchise in technology and healthcare services. The client decided to acquire specialist boutiques in each sector and grew revenue by \$180m in 3 years
- Expert knowledge of IB deal databases in Refinitiv Eikon, SDC, Dealogic, Pitchbook, FactSet

### Senior Analyst

Freeman Consulting Services at Freeman & Co

Jul 2015 - Dec 2016

### Analyst

Freeman Consulting Services at Freeman & Co

Nov 2013 - Jun 2015

## EDUCATION:

Brown University - BA Political Science, BA Economics

2008 - 2012

AppAcademy - 2019 - Rigorous 1000-hour software development course with <3% acceptance rate. Topics include TDD, scalability, algorithms, OOP, coding style, REST, security, single-page apps, and web development best practices.