

## Jessica Conway

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### TECHNICAL SKILLS

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Ruby, Rails, Java, React, Redux, JavaScript, HTML, CSS, SQL, R, MATLAB, Latex

### PROJECTS

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#### BeachBnb (Rails, React)

<https://bnb-aa.herokuapp.com/>

*A Single Page Rental booking site inspired by Airbnb*

- Managed listing and reservation CRUD through custom transactional database operations using Active Record and PostgreSQL, allowing users to make reservations, register listings with photos, and write reviews.
- Adhered to React and ES6 best practices to generate a true single page React web app experience and utilized modular React components to ensure DRY code and readability.
- Implemented back and front end user authentication by combining Rails conventions, Active Record, and customized React-Router higher order components for best user experience.
- Built custom search using Rails and Redux, allowing users to filter listings by data from multiple tables.
- Integrated the React Dates and Google Maps APIs to select date ranges and view listing locations, improving user experience.
- Connected the back end to AWS S3 for photo storage and organization, maintaining content security with AWS IAM, increasing scalability.

#### City Comparator (JavaScript, D3)

<https://jconway12.github.io/City-Comparator/>

*Data visualization of quality of life data from the Teleport API*

- Created a dynamic visualization of API data using only pure JavaScript and D3 to manipulate the DOM.
- Developed a data filtering system which reduces AJAX requests to the API, increasing efficiency and reducing filtering speed.
- Leveraged Webpack and Babel to ensure a reliable and uniform user experience.

#### International Trade Forecast (R)

<https://github.com/jconway12/R-Forecasting>

*Comprehensive forecast on 5 variables in the US international sector*

- Deployed ARIMA, VAR, and exponential smoothing models to forecast the sector over two years.
- Incorporated macroeconomic theory to construct a thorough analysis of the results for each of the 5 sector variables.

### EXPERIENCE

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#### UR ETF Fund, University of Richmond

August 2018 - May 2019

*Student Manager*

- Conducted top down, global economic analysis in order to construct a portfolio with returns above our benchmark.
- Constructed risk models to analyze performance and diversification, leading to improved performance for future funds.

#### Drumlin Field Venture, LLC, Boston, MA

May 2018 - July 2018

*Intern*

- Completed a comprehensive analysis of the craft distillery market in the Hudson Valley.
- Prepared a detailed report on social media, visitor experience, and vendor opportunity, leading to improved customer experience and online presence.

### EDUCATION

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#### App Academy, New York, NY

Fall 2019

Rigorous 1000-hour software development course with <3% acceptance rate

#### University of Richmond, Richmond, VA

May 2019

Bachelor of Science, Mathematical Economics *Magna Cum Laude*

- **Cumulative GPA:** 3.69
- **Honors:** Omicron Delta Kappa, Omicron Delta Epsilon, Pi Mu Epsilon, Phi Eta Sigma, Dean's List
- **Relevant Courses:** CSCE 221: Data Structures, Math 320: Real Analysis, Math: 245: Linear Algebra