

# John Freeman

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## EDUCATION

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### Williams College

*Bachelor of Arts in Computer Science*

Williamstown, MA

*Sept. 2013 – Jun. 2017*

## WORK EXPERIENCE

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### Senior Data Scientist

*Berkeley Research Group*

Jan. 2022 – Present

*Washington, DC (Remote)*

- Provided modeling scores to help lawyers review documents in the e-Discovery phase on multiple cases to determine which ones should be withheld from production due to it containing privileged communication. I was responsible for cleaning the data, generating features from text and meta data, and training models to produce privilege scores which reduced the number of documents our client had to manually review.
- Wrote and deployed software to automate previously manual processes for clients. I was responsible for the implementation of the business logic, the creation and format of our results, QC throughout development, and support for issues the client had after deployment. Our solutions resulted in a large cost and time savings for our client since their tasks no longer had to be done manually by a team.

### Data Scientist

*Berkeley Research Group*

Nov. 2019 – Dec. 2021

*Chicago, IL (Remote)*

- Responsible for combining multiple datasets and generating metrics for a settlement model that provided summary valuation estimates for a large class action lawsuit (~35,000 observations). Our model helped our client provide offers while negotiating settlements with multiple plaintiff law firms.
- Created a process for a client to help them better track their business development efforts since their company's projected revenue was not matching their actual revenue. Our findings led our client to completely redesign of their internal business software and a update their projected revenue.
- Created a model to detect whether an opioid transaction from a drug distributor to a pharmacy should be flagged as potentially fraudulent. Our model found a significant number of additional transactions that should have been flagged as potentially fraudulent in our dataset.

### Junior Data Scientist

*Vista Analytics (acquired by Berkeley Research Group in Nov. 2019)*

Sep. 2017 – Oct. 2019

*Washington, DC*

- Designed and maintained an end-to-end entity pipeline that extracts, ranks, and assigns types to significant entities in a large document set. The results were used in dashboards we provided to clients performing document review to help them find related documents and discover new insights in their data.
- Wrote a program to download and analyze thousands of 10-K and 10-Q SEC to predict if the stock price of a company will increase or decrease in the near-future. We gave our results to an investment firm client for back testing which resulted in a significant increase in their performance using our analysis.

### Teaching Assistant

*Williams College*

Sept. 2015 – May 2017

*Williamstown, MA*

- Helped monitor lab sessions, grade problem sets, and hold TA Sessions to assist students with homework assignments.

## PROJECTS

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### Sharewatch | *React Native, Typescript, WebSockets, Node.js*

2022

- I wrote a stopwatch app that uses web sockets to simulate syncing a group of watches by allowing a single head user start and reset a group of stopwatches at the same time. Users can easily start a room by pressing a button and join rooms using a 4 character code.
- Tech Stack: The mobile app was written in Typescript with React Native, the backend is a Node.js server deployed on Heroku, and Socket.io was used to communicate between the app and server using WebSockets.
- Currently available on the Apple App Store as "Sharewatch: Communal Stopwatch". The application source code can be found at [github.com/jcf1/Sharewatch-app](https://github.com/jcf1/Sharewatch-app) and the server code at [github.com/jcf1/Sharewatch-server](https://github.com/jcf1/Sharewatch-server).

## TECHNICAL SKILLS

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**Languages:** Python, Java, Typescript, JavaScript, C/C++, Scala, SQL, HTML/CSS

**Frameworks:** React, React Native, Svelte, Node.js

**Developer Tools:** Git, AWS, VS Code, L<sup>A</sup>T<sub>E</sub>X