

# Dennis McDaid

## EMAIL

dmcdaid95@gmail.com

## MOBILE

(845) 849 - 5942

## WEBSITE

rajahbimmy.github.io

## GITHUB

RajahBimmy

## EXPERIENCE

Research Assistant  
NYU Genomics  
Department  
New York, NY  
10/2015 - Present

- Reconstructed the legacy code of a gene analysis application, utilizing Node.js, Express, MongoDB, and Browserify to re-work the obsolete Java front and back end into a modern MEAN Stack web app.
- Overhauled the user interface of data visualization tools with p5, d3, and jQuery, providing a lightweight and responsive cross-platform experience.
- Extended the range of acceptable data using MongoDB's flexible design, allowing for collections such as hockey statistics or Beatles songs to be used as training sets for a better understanding of genome hierarchies.

Full Stack Developer  
New York University  
New York, NY  
04/2015 - 05/2016

- Designed a RESTful API by abstracting many inconsistent database records into stable models, which became the cornerstone of future applications.
- Lead the development of several web apps, meeting with clients weekly to deliver scalable programs serving user bases of over ten thousand.
- Reduced database hits by 85% through a combination of shrinking massive table joins and implementing .NET's caching system, which tripled the loading speed for many products at startup.

Teaching Assistant  
Courant Institute  
New York, NY  
08/2015 - 12/2015

- Created fun and interactive lessons for both data structures and web design students, exploring new topics and strengthening existing knowledge.
- Trained students in how to properly test their own programs by advocating for team bug hunting, which led to more collaborative and robust projects.

## LANGUAGES

JavaScript (Proficient)  
C# (Proficient)  
Java (Proficient)  
Python (Frequent Use)  
Swift (Some Experience)  
C++ (Some Experience)

## EDUCATION

New York University, Class of 2016  
Bachelor's Degree, Software Development (*cum laude*)  
*Web Applications and Programming Minor*  
GPA: 3.7 / 4.0

Relevant Coursework  
iOS Development, Natural Language Processing, Database Design,  
Data Structures, Operating Systems, Algorithms, Web Development

## RESOURCES

Git/GitHub  
MySQL/MSSQL  
ASP.NET MVC  
Node.js  
Unreal Engine  
MongoDB

## SELECTED PROJECTS

Sentiment Forecast (2016) [rajahbimmy.github.io/SentimentForecast](https://rajahbimmy.github.io/SentimentForecast)  
**Winner, HackNYU 2016.** Sentiment Forecast utilizes IBM Watson's Alchemy API to perform sentiment analysis across social media, and relies on d3.js to make meaningful visualizations based on this public perception data.

Sungear (2015 - 2016) [github.com/RajahBimmy/Sungear](https://github.com/RajahBimmy/Sungear)  
Sungear is a complex Node.js data analysis app which allows users to observe similarities across gene sets in a dynamic graphical environment.