

Dennis McDaid

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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
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
Sungear is a complex Node.js data analysis app which allows users to observe similarities across gene sets in a dynamic graphical environment.