

# Doug Needham

## Data Scientist

I make data work. Data use-cases become obvious once the data is organized in the right way. My expertise is in the organization of data.



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## Data Scientist

09/2015 - Present

Mason, OH

### Data Scientist

Cengage Learning

#### Accomplishment

- Applying mathematical techniques similar to that found in e-retail to look at student behavior in a new manner. Applications of findings are in learning analytics, product development, and Sales/Marketing initiatives.

09/2014 - 09/2015

Mason, OH

### Data Consultant

Illumination Works.

#### Accomplishment

- Provided guidance for new implementation of Big Data appliance for credit card processing customer.
- Proved out an early Spark implementation for solving Network analysis problems.

10/2013 - 09/2014

Covington, KY

### Data Consultant

Clear Measures

#### Accomplishment

- Designed data warehouse for understanding loan application origination processing through increased insight into both the application process as well as the approval process.

11/2011 - 10/2013

Bethesda, MD

### Data Architect

3M

#### Accomplishment

- Implemented Cloud based infrastructure to migrate on-premise text processing system into cloud based interactive text processing pipeline. Reducing cost of implementation by 80%

08/2011 - 11/2011

New York, NY

### Data Consultant

Rent the Runway

#### Accomplishment

- Provided analytical prototype for understanding geographic location, and patterns of use of our customers.

10/2008 - 08/2011

McLean, VA

### Data Architect

Sunrise Senior Living

#### Accomplishment

- Optimized our cost analysis framework to understand the costs associated with our facilities and business units. This optimization provided better decision making tools for our executive team.

03/2008 - 10/2008

Washington, D.C.

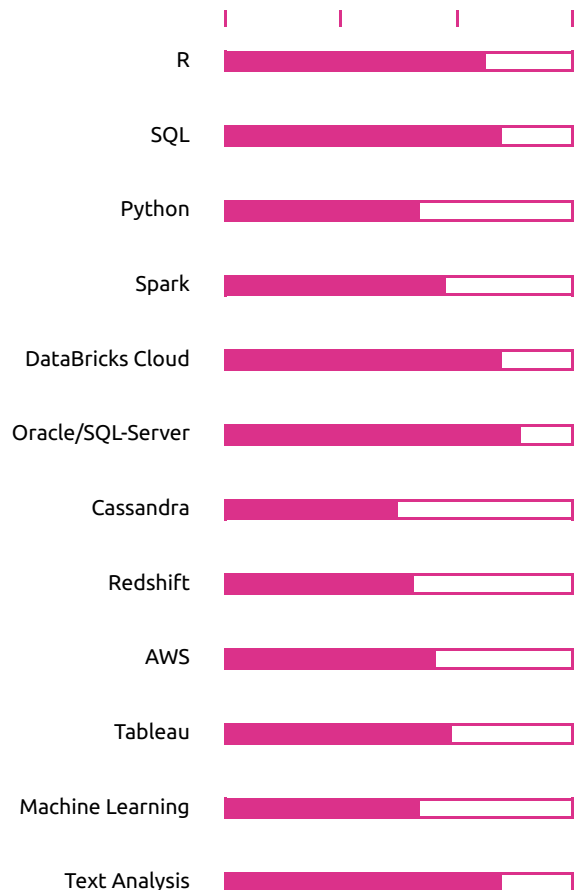
### Data Management Consultant

Workplace/Company

#### Accomplishment

- Increased performance for news organization to provide for increased visibility in transcription and translation capabilities during heavy news cycles.

## Skills & Competences



## Personal Projects

### Startup Advisor

- Advisor for startups in a variety of verticals.

### Author

- [bit.ly/DataStructureGraphBook](https://bit.ly/DataStructureGraphBook) | Treating a data architecture like a Social Network. Systems are Actors, and data transfers are connections.

### Kaggle

- <https://www.kaggle.com/dougneedham> | I tinker with Kaggle competitions when I have the time.

## Achievements & Certificates

Coursera/Cloudera/DataStax/Neo4j

<https://github.com/dougneedham/Certificates>

## Interests

Data | Startups | Applied Mathematics | Predictive Analysis |

Decision Support Systems | Business Intelligence | Data Warehousing