

# Charlie Guthrie

Data visualization engineer and data scientist

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## EDUCATION

### **New York University**

Graduating Dec 2016

#### ***Candidate, MSc Data Science***

- Coursework includes Statistics, Deep Learning, Machine Learning, Big Data, Inference, Natural Language Processing, and Algorithms

### **Dartmouth College**

Sep 2003 - Jun 2007

#### ***B.A. Mathematics***

- Coursework includes Mathematical Statistics, Linear Modeling, Computer Science, Differential Equations, and Study Abroad in France

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## WORK

### **Cadent**

#### ***Data Scientist***

Summer 2016

- Data science consulting position for TV & digital advertising network.
- Used variational auto-encoding to simulate sensitive data.
- Planned upgrades to ad forecasting system to be built after my departure.

### **R/GA [freelance]**

#### ***Data Scientist***

Summer 2015

- Built interactive visualization of data flow for NYC ad agency client.
- Consulted with client on data management and engineering for data science projects.

### **Yleana Academy**

#### ***[freelance]***

#### ***Statistician***

Summer 2015

- Project for nonprofit test-prep academy serving underprivileged youth.
- Designed and built an individualized student dashboard, including recommended study topics for each student based on analysis of previous assessments. (Python)

### **The New York Times**

#### ***Data Visualization***

#### ***Engineer***

May 2013 - Jun 2015

- Developed interactive visual dashboard used for business intelligence analytics company-wide. (D3, Django, SQL, AWS...)
- Created live-updating dashboard of graphics describing how people use nytimes.com, including most popular articles and referrers.

### **Dstillery**

#### ***Data Science Analyst***

Mar 2011 - Apr 2013

- Member of the Data Science team for a targeted digital advertising firm.
- Performed full-stack data analysis and testing on ad campaigns, from querying large Hadoop tables using Hive, to modeling in R, visualization using D3 or Excel/Powerpoint, and shell scripting.
- Managed interns and educated employees on our bidding process.

### **Carfax**

#### ***Marketing Analyst***

Sep 2009 - Feb 2011

- Researcher in company that produces used vehicle history reports.
- Developed statistical models for predicting annual driver mileage and for identifying best client prospects.
- Studied marketing efforts and presented insights to company directors.

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## SKILLS

### **Data Vis / Front-end**

#### ***Data Science***

- HTML, CSS, Javascript, specializing in D3 and JQuery
- Queries in MySQL, Hive/Hadoop; analysis in Python (Pandas, NumPy, SciPy), R, Excel; deep learning with Torch, Theano

### **Other**

- Shell scripting, Microsoft Office Suite; Conversant in French.