

# Charlie Guthrie

Data visualization engineer and data scientist

See my side projects at [charlieguthrie.net](http://charlieguthrie.net)

[@charlieguthrie](https://twitter.com/charlieguthrie)

[linkedin.com/in/guthriecharlie](https://www.linkedin.com/in/guthriecharlie)

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## WORK

### **R/GA**

#### **Data Scientist**

Jun - Jul 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**

#### **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.
- Prototyped visualization-oriented report for ad clients.

### **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.

### **Teaching Roles**

Aug 2007 - Aug 2009

- Math tutor and algebra teacher at the TEAK Fellowship, in New York.
  - Elementary school teacher in the Marshall Islands.
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## EDUCATION

### **New York University**

Graduating Jun 2017

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

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

### **Dartmouth College**

Graduated Jun 2007

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

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

### **Other**

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