

# Charlie Guthrie

Data scientist and visualization engineer

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## WORK

### Facebook

#### **Data Scientist**

Jul 2017 - Present

- Community Integrity team, responsible for moderating FB content, and keeping off porn/hate speech/ other bad behavior.
- Designed, prototyped, and coordinated with engineering team to develop system for measuring accuracy of our content reviewers.
- Estimated sample and headcount requirements for stable metrics, tested reviewers to ensure their expertise, tracked accuracy in dashboard

### Amazon (Audible)

#### **Data Science Intern**

Spring 2017

- Natural language processing research at leading audiobook provider.
- Clustered user comments and identified representative samples.
- Experimented with keyword extraction and book summarization.

### Cadent

#### **Data Science Intern**

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.

### 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.
- Managed intern 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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## EDUCATION

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

### New York University

Sep 2014 - May 2017

#### **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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## SKILLS

### Data Science

- Analysis in Python (Pandas, NumPy, SKLearn), R, Excel; queries in MySQL, Hive/Hadoop; deep learning with Tensorflow, Torch, Theano.

### Data Vis / Front-end

- HTML, CSS, Javascript, specializing in D3 and JQuery.

### Other

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