

# Charlie Guthrie

Data visualization engineer and data scientist

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

**New York University**  
Graduating Dec 2016

**Candidate, MSc Data Science**

- Coursework includes Cognitive Science, Educational Data Science, Statistics, Deep Learning, Machine Learning, Nat. Language Processing

**Dartmouth College**  
Sep 2003 - Jun 2007

**B.A. Mathematics**

- Coursework includes Mathematical Statistics, Linear Modeling, Computer Science, Probability, and Secondary School Teaching

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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 Vis. Engineer**  
May 2013 - Jun 2015

- Developed interactive visual dashboard used for business intelligence analytics company-wide. (D3, Django, SQL, AWS...)
- Created live-updating dashboard for consumer usage analytics

**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, including Hive queries, modeling in R, visualization using D3, 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.

**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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## 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.