

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, and Natural Language Processing

Dartmouth College
Sep 2003 - Jun 2007

B.A. Mathematics

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

WORK

R/GA
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
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.

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, some Java; Conversant in French.