Charlie Guthrie
Data visualization engineer and data scientist

See my side projects at charlieguthrie.net
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WORK

The New York Times
Data Visualization Engineer
May 2013 – Present
New York, NY

- Developed online interactive visual dashboard system used for business intelligence analytics and reporting company-wide. Replacing ad-hoc emailed reports, the dashboard provides automated, up-to-date business metrics such as total subscribers, downloads, and page views.
- 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.
- Provided ad-hoc and regular reports.

M6D / Dstillery
Data Science Analyst
Mar 2011 – Apr 2013
New York, NY

- Member of the Data Science team for a targeted digital advertising firm that specializes in using predictive modeling to identify new customer prospects for major online brands.
- Performed full-stack data analysis and testing on our ad campaigns, from querying large Hadoop tables using Hive (or smaller schemas in MySQL), to modeling in R, visualization and dashboards using D3 or Excel/Powerpoint, and shell scripting.
- Managed interns and educated employees on our bidding process.

Carfax
Marketing Analyst, Strategic Insights
Sep 2009 - Feb 2011
Centreville, VA

- Member of research team in a company that produces used vehicle history reports and and other relevant information to used-car buyers.
- Developed statistical models for predicting annual driver mileage, and for identifying best client prospects.
- Studied marketing efforts and periodically presented strategic insights to company directors to aid in decision-making.

Teaching Roles
Aug 2007 – Aug 2009
Various locations

- Math tutor and algebra teacher at the TEAK Fellowship, in New York
- Directed sailing program at Point O' Woods Yacht Club, New York
- Elementary school teacher in the Marshall Islands

EDUCATION

New York University
Graduating June 2017
New York, NY

Candidate, MSc Data Science
- Coursework includes Mathematical Statistics and Data Analysis, Machine Learning, and Big Data.

Dartmouth College
Graduated June 2007
Hanover, NH

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

SKILLS

Data Vis / Front-end   HTML, CSS, Javascript and libraries D3, JQuery, some Pentaho.

Data Science   Query tools MySQL, Hive, Pig; statistics using R, Python, SPSS, and Excel.

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