Charlie Guthrie

Data scientist and visualization engineer

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EDUCATION

See projects at 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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WORK

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.

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.

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, 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.

SKILLS

Data Science
- Analysis in Python (Pandas, NumPy, SciPy), 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.