David Jackson

Education: Reed College, B.A. Mathematics and Economics May 2009
Thesis: Estimation of the Production Effects of U.S. Agricultural Program Payments.

Job Experience

Senior Analyst, Steck Consulting, LLC, January 2010 - June 2012
I write Python and Stata programs implementing damages calculation algorithms for civil health care fraud litigation. Using distributed data sets of up to 10+ terabytes, my programs make use of the map/reduce architecture to filter, merge, clean, and calculate in parallel across cores and machines. I organize the results into clear, persuasive data visualizations and reports for expert witness testimony. I work directly with clients and collaboratively with colleagues. I rigorously tested and review all code to ensure the validity of the results. Typical clients are the U.S. Department of Justice or state U.S. Attorney's Offices. My work has directly contributed to about one billion dollars in civil damages being recovered by federal and state governments for the Medicare and Medicaid programs. In addition, I've written a multi-threaded web scraping script to regularly update a database of third-party reference data.

Research Assistant, Northwest Economic Research Inc., January – June 2009
I designed and implemented a statistical model for a paper examining electricity markets and Regional Transmission Organizations. I cleaned and consolidated primary data sets and performed regression analysis and complex data transformations. I kept detailed, notated logs of all of my work. I generated graphs and tables of regression results, and edited the paper for mathematical defensibility. The paper was published in *The Electricity Journal* in August 2009: "The Impact of FERC Orders on the Value of Bidders in PJM".

Economics Tutor, Reed College, September 2007 – April 2009
I tutored students both at a drop-in help center and one-on-one. I taught Introductory Economics, Microeconomic Theory, and Econometric Theory and Practice.

Research Assistant, Federal Trade Commission Bureau of Economics, June – August 2008
I transformed hundreds of data sets into a user-friendly data library in Excel. Users could query the content of available data sets by date, location, and market type. I researched historical oil price data sets from 1910 to 1930; formatted and cleaned the data for use in economic history research.

Technical Skills:
Four years experience writing and debugging complex Python and Stata programs.
Familiar and capable with Perl, Ruby, C++, and R.
Familiar with both MySQL and PostgreSQL.
Familiar with HTML, CSS, Javascript, JQuery, etc.
Skilled with the MS Office suite - Excel, Word, Powerpoint, etc.
Comfortable working in an OS X, Linux/Unix, or Windows environment.

References:

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