

# jacobcarey

data analyst

## about

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## skills

Modeling & simulation  
Machine learning  
Regression analysis  
Linear programming  
Time series analysis  
Data visualization  
Web scraping

## programming

R, Python, SQL  
C, C++, Bash  
MATLAB, SAS

## tools

git  
L<sup>A</sup>T<sub>E</sub>X

## education

2008–2012 **Bachelor** of Science in **Mathematics**  
Graduated with Honor

Virginia Tech

## experience

- 2014–Now **Marriott International** Bethesda, Maryland  
*Manager, eCommerce Analysis*
- Assisted with new Marriott user-centric sort order algorithm
  - Developed time series model to determine effectiveness of hotel promotions.
  - Calculated weekly values of search engine keywords in order to best allocate online marketing funds.
  - Performed web scraping of external websites to provide business insights.
  - Worked with datasets greater than one billion rows.
  - Automated reports using R & ggplot2 and ETL using Python scripts.
- 2012–2014 **Deloitte** Arlington, Virginia  
*Data Analyst*
- Managed a client-facing team of three consultants in the analysis of datasets greater than one million rows using SAS. Led regular meetings and presented results and data visualizations to key clients and internal stakeholders.
  - Developed web application to be used by federal agencies to optimize resource allocation. Used Python to perform server-side calculations.
  - Assisted federal agency in meeting requirements of government act using sample selection and estimation of disbursed grants and transactions.
- 2011 **Virginia Commonwealth University, School of Medicine** Richmond, Virginia  
*Student Research*
- Used R programming language to analyze gene expression data and create a gene regulatory network.
  - Created R package to run analysis on future gene expression datasets

## activities

- 2013–Now **Arlington Free Clinic** Arlington, Virginia  
Volunteer at Free Clinic and assist with medical treatment and triage of the clinic's patients
- 2009–2012 **Individual Applied Piano** Blacksburg, Virginia  
Study piano in Virginia Tech's Music Department