

# Frank Cleary

## Data Science and Machine Learning

### HIGHLIGHTED SKILLS

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BIG DATA	Hadoop, Hive, Pig, AWS
PYTHON	Pandas, Numpy, Matplotlib
OTHER LANGUAGES	Java, R, SQL, MATLAB
TOOLS	Git, Remote machines, Linux command line, Web interfaces, $\LaTeX$

### WORK EXPERIENCE

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#### Member Technical Staff

*Index Systems Inc., San Francisco, CA*

JUNE 2014 – PRESENT

- Implemented a big data pipeline leveraging the AWS cloud
- Delivered time critical data analysis projects using hadoop based tools and the python data science stack
- Ensured data and analysis integrity with unit tests for analysis code
- Maintained and extended server side Java code

#### Data Scientist Intern

*SEVEN Networks, San Carlos, CA*

JUNE 2013 – AUGUST 2013

- Developed data analysis and visualization software in python
- Analyzed data to provide recommendations on A/B testing design and areas for product improvement
- Implemented web interfaces allowing nimble data analysis for executives and developers

#### Middle School Science Teacher

*PS/MS 95, Bronx, NY*

JUNE 2006 – JUNE 2008

- Selected and trained as part of the Teach for America program
- Taught classes of 30 middle school students at PS/MS 95 in Bronx, NY
- Designed experiments for use in a school with no lab facilities

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### EDUCATION

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2008 – 2014 **Ph.D. in Biophysics**

NSF FELLOW

*UC Berkeley, Berkeley, CA*

2002 – 2006 **B.A. in Physics, cum laude**

3.96 GPA IN MATH & PHYSICS

*Cornell University, Ithaca, NY*

### PERSONAL PROJECTS

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MPG APP	frankcleary.com/mpg
SVD TUTORIAL	frankcleary.com/svd frankcleary.com/svdimage
NYC DATA	frankcleary.com/nycdata
DATA BLOG	frankcleary.com/tag/data
OUTREACH	Developed and taught a science lesson in local middle schools

### THESIS RESEARCH

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#### Ph.D. Research

*UC Berkeley, Berkeley, CA*

AUGUST 2008 – MAY 2014

- Created models and customized data analysis tools in Python and MATLAB
- Developed a quantitative Monte Carlo model for motor protein motion
- Designed and carried out a project, now two completed manuscripts, on the biophysics of motor proteins.
- Mentored High School students to complete projects for competition in international science fairs