

Elaine K. Lee

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Experience

Avant

September 2015 – Present

Data Engineer

Chicago, IL

- Implementing infrastructure to support training models on large datasets and real-time predictions.

Civis Analytics

April 2014 – September 2015

Data Scientist – R&D

Chicago, IL

- Developed two automated data science workflows (continuous modeling and transfer learning) for a production codebase in Python and worked with software engineers to integrate them as new features in the Civis platform.
- Trained colleagues in command line tools, internal Civis software, and Python via brownbags and one-on-one mentorship.
- Produced models and analysis for internal use.
- Interviewed candidates for positions across the entire company and recruited at college career fairs.
- Ran a company-wide weekly meeting for discussing machine learning papers.

Rifiniti, Inc. (*MassChallenge 2013 Startup Accelerator Winner*)

June 2013 – March 2014

Machine Learning Developer (*Intern: June – August 2013*)

Boston, MA

- Developed algorithms in R and Java for classification and missing data problems.
- Contributed to developing and supporting the full software stack including the front end (JavaScript) and back end (Unix, MySQL, Apache Tomcat).
- Recruited college students and mentored student interns.

US Department of Defense

July 2010 – August 2012

Operations Research Analyst

Hanscom Air Force Base, MA

- Performed over 50 cost estimates to support reductions to Air Force-wide staffing efforts.
- Estimated the cost for the development of a theatre deployable communications system.
- Determined the most cost effective bid for a \$76 million contract as lead cost analyst.
- Co-developed and co-taught software classes (Microsoft Excel, Deltek wInsight) to 20 colleagues.

Education

Harvard University

2012 – 2013

AM Statistics

GPA: 3.63/4.00

- Project: "Analyzing Hubway Trip Data Using Principal Component Analysis (PCA)"
 - Created dataset by merging 500,000+ Hubway bikesharing trip records with NOAA historical weather data. Performed PCA using Singular Value Decomposition in R and analyzed resulting components for bikesharing patterns.
 - Featured in Boston.com's Brainiac Blog (August 2, 2013).

Carnegie Mellon University

2006 – 2010

BS Mathematical Sciences – Operations Research

GPA: 3.54/4.00

- Minors: Computer Science, Statistics
- Judith Resnik Challenger Scholarship; University Honors, Research Honors, Dean's List 5 semesters

Honors

2015 Open Data Science Conference speaker

2009 US Department of Defense SMART scholar

2012 AAUW Selected Professions Fellowship

2009 Vanguard Women in Information

2010 CMU Open Innovation Challenge – 1st Place

Technology scholar

Skills

Programming/Scripting/Technology: Python, R, Java, SQL, Git, Bash, MATLAB, C/C++, Microsoft Excel VBA

Volunteering: CMU Alumni Admissions Interviewer & College Fair Representative, 2010-2013