Benjamin Tanen

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Work Experience	**Senior Analyst,** Analysis Group	December 2018 – Present
	Analyst, Analysis Group	August 2017 – December 2018

- Conduct quantitative and qualitative analyses and visualizations to support and aid expert testimony in healthcare litigation using R, SAS, SQL, Python, and Excel
- Develop a variety of web applications in R to help non-quantitative users easily visualize and analyze prescription trends seen across millions of drugs and physicians
- Construct statistical models for pharmaceutical distributors to monitor, analyze, and flag suspicious ordering and prescribing of opioids and other controlled substances

Academic Technology Fellow, Tufts University   September 2014 – May 2017

- Designed, developed, maintained, and supported a variety of research and education-based technology tools to aid and foster teaching and learning at Tufts University
- Successfully built and integrated software and applications for teams and departments across the university including economics, cognitive sciences, philosophy, biology, and physics

Analyst Intern, Analysis Group   June 2016 – August 2016

- Conducted analyses to support and aid industry experts and counsel for international intellectual property and patent infringement litigation using SAS, SQL, Python, and Excel
- Constructed and analyzed large healthcare claims datasets (more than 4-billion observations) for use in a proprietary machine learning-based healthcare model

Software Engineering Intern, Pegasystems   June 2015 - August 2015

- Implemented and optimized new and existing generation features for an enterprise software platform while working on a Scrum team using Java, HTML / CSS, and Agile methodology

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Projects

Visualizations and Analyses on ben-tanen.com   October 2014 - Present

- Created over 30 independent visualization and analysis projects to take insights and tell stories from a variety of music, media, sports, and political data, including:
  - Generating custom Spotify playlists using k-means clustering
  - Using support vector machines to distinguish a Oscar Best Picture and a box office hit
  - Assessing the accuracy of IBM Watson's fantasy football predictions
  - Creating automated tools in Python for optimizing my Spotify library and playlists
  - Analyzing how a congressional bill *doesn't* become a law (inspired by Schoolhouse Rock)

ASL-LEX   December 2014 - May 2017

- Developed web application and lexical database of over 1,000 American Sign Language signs to help teach ASL to K-12 students, based on research from Tufts and BU graduate students
- Winner of Best Interactive Visualization from The National Science Foundation's 2017 Vizzies

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Education

Tufts University - School of Engineering, Medford, MA   September 2013 - May 2017
Bachelor of Science in *Computer Science (Engineering)*
Minors in *Mathematics* and *Engineering Management*
GPA: 3.81 / 4.0, *summa cum laude*
Honors: Tau Beta Pi, Dean's List (all semesters)

Relevant Courses: Visualization & Analysis, Technical & Managerial Writing, Data Mining, Probability & Statistics, Algorithms, Data Structures, Mathematical Modeling, Discrete Math

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Skills & Interests

Software: Python (Pandas, numpy), R (Shiny, ggplot), SQL, JavaScript (D3, JQuery, Node), Tableau, HTML5, CSS3, Processing, Excel / VBA, SAS, MATLAB, Photoshop/Illustrator, Git

Interests: Soul Music, Law & Politics, Hockey, Filmmaking, Spicy Foods, Design, Comics