Daniel Loman

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About
Recent college graduate with background in Physics and Computational Modeling, currently using acquired computational and quantitative skills in the fields of Analytics and Data Science.

Education

M.S. in Analytics, University of San Francisco, San Francisco, CA   June 2015 (exp)
GPA 3.70

B.S. in Physics, Siena College, Loudonville, NY   May 2014
Minors in Mathematics and Computational Science
GPA 3.70 in major, 3.47 overall

Experience

Physics Research Assistant   Summer 2012
Siena College
Loudonville, NY

Performed research in the field of Computational Biophysics. Developed Matlab code to model amphiphilic molecules and various lattice structures, and ran simulations to compute the energy level of the structures.

National Nanotechnology Infrastructure Network Intern   Summer 2013
University of California, Santa Barbara
Santa Barbara, CA

Developed python code to analyze the trap density of the III-V semiconductor, which involved importing, manipulating and visualizing data. Additionally, work included customizing existing code for more efficient data collection.

Projects

- Analyzed advanced NBA statistics, specifically the effects of Dean Oliver's "Four Factors of Basketball Success on Offensive Efficiency. Developed python code which used Beautiful Soup to scrape web data from basketball-reference.com and used statistical methods such as correlations, bootstrapping, Monte Carlo simulations and k-nearest neighbors in the analysis.
- Classified movie reviews as positive and negative with a success rate of 80%. Designed model in python that was trained using Bayesian sentiment analysis.
- Worked on finding the most employable skills in a given industry and location by scraping LinkedIn data using python. Used the LinkedIn API and BeautifulSoup to collect data.

Skills
Strong coding ability in python, with additional experience in R, mySQL, Matlab and Java. Well versed in Mathematics and Statistics including linear algebra, statistical analysis, hypothesis testing and regression modeling.