ARUN RAMAMURTHY
Applied Statistician & Data Engineer

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UC Berkeley – December 2019 | GPA: 3.57
Statistics, B.A. | **Computer Science, B.A.**
Machine Learning • Artificial Intelligence • Fourier Analysis
Cybersecurity • Databases • Parametric & Nonparametric Models

DATA SCIENCE SKILLS

R	Statistical Models
Python	Machine Learning
Java	Signal Processing

WORK EXPERIENCE

Data Scientist, Sentieo
San Francisco, California / New York, New York   May 2018 – August 2018
Develops production-ready modeling and data mining systems in R, integrating with the existing Python-based platform
- Implementing a variety of NLP, textual analysis, and topic modeling techniques, I designed, tested, and deployed an automated tagging algorithm for financial research reports, ensuring < 4% false-negative miss rates against human-collected tags for a corpus of 487 documents, across all eleven tag types
- I designed an interpretable hierarchical financial model that utilizes alternative data streams and financial time series data to characterize and predict the spread between consensus estimates and actual quarterly revenues, as well as beat likelihood, for a given quarter of a large cap company

Data Scientist, Environmental Progress
Berkeley, California   May 2017 – February 2018
Harvested, analyzed, and visualized data for research and publication across all current research projects to inform energy policy. Published both qualitative and heavily analytical research and models of energy policy and technology data.
- My statistical research findings on the role of energy policy and clean energy technologies in climate mitigation for 68 nations over 51 years were covered by Eduardo Porter in the November 7, 2017 issue of *The New York Times*

System Administrator, HedgeSPA
Singapore, Singapore   May 2016 - August 2016
Designed, implemented, and configured open-source mail and financial file sharing servers with specialized security features

ADDITIONAL EXPERIENCE

President, Statistics Undergraduate Student Association
Berkeley, California   August 2015 – May 2018
Led 116 undergraduates in six distinct committees, presiding over all club events, consulting projects, and client relations
- Rebranded and marketted a reformed iteration of the student organization, growing membership from 67 to 116 students

Data Science
- Currently writing an extended textbook on rapid statistical research and production deployment of data mining and modeling systems via modern R programming – includes 50 practice problems per chapter and multiple projects
- Best in Show in the 2018 Datafest; Honourable Mention in the California Water Data Challenge for our automated mailing system to deliver water safety information to California schools; and Runner-Up in Facebook's Data for Good competition
- Currently working under Dr. Phillip Stark at UC Berkeley to develop an R package to compute estimation stability, a generalized metric proposed by Dr. Bin Yu to allow for cross-model comparisons in model performance