

Work Experience

Machine Learning Engineer, LegalZoom Glendale, CA 2017
Department of Data Sciences and Analytics

- Developed autoregressive models and recurrent neural networks to predict the number of weekly sessions on the company web site.
- Designed and implemented zero marketing spend experiments to extrapolate a baseline for weekly website sessions due to an established customer base.
- Used Python's *unittest* module to develop a light test framework for customer lifetime value predictions.

Mathematics and Computer Science Teacher, Ribet Academy Los Angeles, CA 2014-2017
Department of Science and Mathematics

- Developed and taught a joint mathematics and computer science curriculum targeted at advanced juniors and seniors.

Competition Mathematics: AMC (10/12), AIME, USAMO

6 Semesters

Computer Science: AP Computer Science (CS61B UC Berkeley), Robotics (CS61A UC Berkeley)

4 Semesters

Applied Mathematics: AP Statistics, Discrete Mathematics

4 Semesters

Languages and Technologies

Most Experienced Python, NumPy/SciPy, Tensorflow, Keras, Scikit-learn, Pandas, Statsmodels

Some Familiarity C, Octave/Matlab, Java, SQL, Scheme, JavaScript, Git, Sphinx

Education

University of California Santa Cruz, CA 2012-2014
B.A. in Mathematics, GPA 3.82, cum laude

Projects

Data Science IPython Notebooks github.com/siryog90/data-science-ipython-notebooks
Projects, tutorials and exercises demonstrating techniques in Deep learning (TensorFlow, Keras), scikit-learn, Kaggle, big data (Spark, Hadoop MapReduce, HDFS), matplotlib, pandas, NumPy, SciPy, Python essentials, AWS, and various command lines..

Mathematical-Visualizations github.com/siryog90/mathematical-visualizations
Visualizations of fractals and time dependent evolutionary processes.

Extracurricular Activities

Coach for the United States of America Mathematical Olympiad

I help students prepare for the chain of mathematics competitions that culminate in the USAMO. In 2017, one of my students participated in the USAMO.