Matthew Swogger

Data Scientist
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SUMMARY

I'm a highly-analytical thinker and quick learner with a background in physics and probability/statistics. I enjoy building models and finding insights in data that help to make people's lives better and easier.

SKILLS

Models

- Linear/Logistic Regression
- Recurrent Neural Nets
- A/B Testing
- Multi-Armed Bandits
- SVM
- KNN
- Random Forest
- K-Means
- Hierarchical Clustering
- Naive Bayes
- TF-IDF
- PCA
- ARIMA

Programming and Analysis

- Python
- tensorflow
- numpy
- Tableau
- matplotlib
- seaborn
- SciPy
- Pandas
- Scikit-learn
- Statsmodels
- NTLK
- BeautifulSoup
- Pymongo

Databases

- SQL
- MongoDB

Scalable DataTechnologies

- Spark

EXPERIENCE

LETSBEVY Data Scientist   Feb. 2017 - Present
Oakland, CA - Remote
Led the design, implementation, and put into production the matching algorithm to match bands to the ideal gigs for them and match venues/event planners to the best bands for their event.

GALVANIZE Machine Learning & Data Science Fellow Apr. 2016 - Jul. 2016
San Francisco, CA
Immersive program consisting of instruction in the techniques and technologies of data science, covering everything from A/B testing to NLP, and CNN. Built a number of dashboards using Tableau.

<u>Projects</u>
Recurrent Neural Network Surge Forecaster
- RNN with one LSTM hidden layer trained on 16 point multivariate time series dataset. Has an MSE of 0.029. See my Github Repo

LinearSVM Breast Cancer Classification
- Used SVM to classify measurements from digitized images of a fine needle aspirate (FNA) as Malignant or Benign. Precision: 0.97, Recall: 0.98, F-1 Score: 0.97 and a False Negative Rate of 1.03%. See my Github Repo

US Army 82nd Airborne Division Combat Engineer   Feb. 2003 - Dec. 2005
Fort Bragg, NC
- Deployed 9 months for Operation Iraqi Freedom and Operation Enduring Freedom
- Team leader: responsible for five soldiers' daily skill training, daily physical preparedness, and safety, allowing them to realize their full potential as Paratroopers
- Managed the radio, the ordinance removal (cache of found weapons and explosives), and the infiltration of buildings in the form of door removal/'door making' for a squad of ten Paratroopers

All Outdoors Raft Guide   May 2008 - Aug. 2012
Lotus, CA
- Managed groups of up to 100 customers as the Raft Trip Leader on Class 4 whitewater on the Middle and South Forks of the American River
- Other duties included Medical Officer, and Swift Water Rescue Officer
- Obtained and maintained EMT, Swift Water Rescue Technician, Wilderness First Responder, and CPR certifications, allowing me to deliver the most enjoyable trip while maintaining the utmost safety possible

EDUCATION

B.S. Physics   Dec. 2013
University of Nevada, Reno, NV

A.A. Outdoor Recreation Leadership   Dec. 2008
Feather River College, Quincy, CA

ACTUARIAL EXAMS

Exam Financial Mathematics   Oct. 23 2014
Exam Probability and Statistics   May 14 2015