

# Scott P. White

*Data Scientist, Chemical Engineer, Entrepreneur*

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<http://www.scottpwhite.com> ▪ [GitHub.com/spwhite1337](https://github.com/spwhite1337) ▪ [LinkedIn/In/Scott-P-White](https://www.linkedin.com/in/Scott-P-White)

## Skills

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- **Programming:** *Languages* - Python, R, SQL/PostgreSQL, MATLAB, HTML/CSS/Javascript.  
*Tools* – TensorFlow/Keras, scikit-learn, Plotly, Django, ggplot, glm, AWS, Git/GitHub.
- **Technical Skills:** Machine Learning, Reinforcement Learning, Statistical Analysis/Regression, Deep Learning, Natural Language Processing, Forecasting, Experimental Design.

## Data Science

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Data Scientist at *Strong Analytics* ([strong.io](http://strong.io))

Jan 2019-Present

- Built and served an API to classify social media images with a Deep Learning Neural Network for a client in the tech industry. Analysis of the O(100 GB) of images with HPC and cloud servers cut our client's costs by rendering Google's Cloud Vision API superfluous.  
- Keras, Tensorflow, OpenCV, Flask, AWS
- Designed and implemented RL agents that automate marketing programs for a client in the Entertainment/Gaming industry. Executed state-of-the-art Off-Policy Evaluation (Importance Sampling, Doubly Robust, MAGIC) of various agents to optimize before deployment.  
- FB Horizon, Tensorflow, scikit-learn, Statsmodels, glm, lme4, PostgreSQL,
- Routinely constructed dashboards, automated reports, and presentations for technical and non-technical clients.

Data Science Fellow with *Insight Data Science* ([insightdatascience.com/](http://insightdatascience.com/))

Sept.-Nov. 2018

- Programmed an application ([link](#)), *Prescription Drugs: What's the Worst that Could Happen?*, to supplement health apps (e.g. WebMD) by providing likelihood estimates of adverse effects.
- Analyzed >20 GB of public health records to connect the profile of a user to the seriousness of their outcome by maximizing precision (~0.90) across various ML models.  
- Utilized Scikit-Learn for Random Forest, Logistic Regression, Naive Bayes, and K-Means.

## Engineering and Entrepreneurship

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Founder of *Printed Bioelectronic Solutions (UMN Tech Start-Up)*

Fall 2016 – May 2018

- Developed an electronic biosensing technology from a laboratory platform to an attractive prototype for Internet of Things (IoT) applications in the food safety space.
- Implemented data story-telling to gain customer insights (>100 interviews), recruit support from veteran entrepreneurs, and earn credibility with industrial partners.
- Led the project from inception to implementation as an entrepreneur.  
Successfully transitioned the technology from academia in <2 years.

Post-Doc and Ph.D. Student at *University of Minnesota – Twin Cities*

Aug. 2012 – March 2018

- Extracted complex signal waveforms from noise, designed and identified key signal features to accurately apply a novel sensor to proteins, DNA (Python, MATLAB, R).
- Invented a patented technique for electronic transduction of interfacial molecular capture by combining printed electronics with microfluidics in an automatable fashion.
- Communicated the work via publications (four as first author), presentations (six oral), proposals (two funded), a patent (issued), and mentoring of students/visiting scientists.

## Education

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University of Minnesota – Twin Cities

Minneapolis, MN

Ph.D. in Chemical Engineering, NSF Fellow

Dec 2017

University of Iowa

Iowa City, IA

B.S.E. in Chemical Engineering, Highest Honors

May 2012