

Scott P. White, Ph. D.

Data Scientist, Chemical Engineer, Entrepreneur

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Objective

My career spans academia, the start-up world, and established corporations in the energy industry. As of Summer 2020 I am not looking for a new position but any interested parties are welcome to reach out for more information.

Data Science

Data Scientist at *AES* ([AES](#))

Jan 2020-Present

- Core scientist on the team leading a *Digital Transformation* at the company where I had the opportunity to plan, design, and execute Data Science / ML projects including: *Wind Turbine Condition-Based Maintenance* and *Electric Meter Anomaly Detection*.
- Developed data pipelines to centralize data sources and integrate them into Googles Cloud Platform. Routinely handling TBs of data with varying levels of structure and integrity.
 - *PySpark, BigQuery, AirFlow*
- Constructed dashboards, automated reports, and presented complex results for technical and non-technical audiences to demonstrate the quality of our analytics (i.e. ML and stat models).
 - *Scikit, Plotly / Dash, Flask, Vue.js, Google Data Studio*

Data Scientist at *Strong Analytics* ([strong.io](#))

Jan 2019-Jan 2020

- 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 servers cut our client's costs by rendering Google's Cloud Vision API superfluous.
 - *Computer Vision, Machine Learning, DevOps, AWS*
- Designed and implemented ML / Regression models that automate marketing programs for a client in the Entertainment/Gaming industry.
 - *Machine Learning, Hierarchical Modeling, SQL*

Data Science Fellow with *Insight Data Science* ([Insight Data Science](#))

Sept.-Nov. 2018

- Programmed an application, *Prescription Drugs: What's the Worst that Could Happen?*, to supplement health apps (e.g. WebMD) by providing likelihood estimates of adverse effects.

Engineering and Entrepreneurship

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

Fall 2016 – Spring 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.
- 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

University of Minnesota – Twin Cities

Ph.D. in Chemical Engineering, NSF Fellow

Minneapolis, MN

Dec 2017

University of Iowa

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

Iowa City, IA

May 2012