Scott P. White, Ph. D.

Data Scientist, Chemical Engineer, Entrepreneur
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Objective

Thus far my career covers academia, the start-up world, and large organizations in established industries. 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. I have had the opportunity to plan, design, and execute Data Science / ML projects including: *Wind Turbine Condition-Based Maintenance* and *Electric Meter Anomaly Detection*.

▪ Develop data pipelines to centralize data sources and integrate them into Googles Cloud Platform. Routinely handle TBs of data with varying levels of structure and integrity.
- *PySpark, BigQuery, AirFlow*

▪ Construct dashboards, automate reports, and present 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 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