

# John Atwood

## Lead Data Scientist

Innovative Data Scientist with leadership experience in teams of technical and non-technical personnel. Highly organized, motivated and diligent with significant background in medical and financial research. Seeking a data-driven organization as a Data Scientist, Software Developer, or Data Engineer

✉ john.s.atwood@gmail.com

📞 8049298697

📍 Falls Church, United States

## WORK EXPERIENCE

### Lead Data Scientist

#### The LYCRA Company

05/2020 - Present

Waynesboro, VA, USA

Textile Manufacturing

Achievements/Tasks

- Develop Deep Learning pipelines and algorithms to develop greater understanding of operational inefficiencies and improve raw material conversion globally.
- Develop a Natural Language Processing program to scrape the web and provide feedback on consumer and market sentiment of the LYCRA brand.
- Build and automate live production monitoring tools, **eliminating operational errors and inefficiencies and human oversight.**
- Develop and maintain reporting dashboards for site leadership to **better schedule and manage production areas.**
- Use machine learning and other statistical tools to predict sales behavior.
- Perform routing optimization analysis **to reduce shipping time and costs to our consumers and from potential suppliers.**
- Supervising two on-site laboratories of 20 operators.

### Data Scientist and Laboratory Supervisor

#### The LYCRA Company

07/2019 - 05/2020

Achievements/Tasks

- Quality systems and product manager, ensuring conformance to company best practices and local, state, and federal laws, **aiding in an organizational reduction of waste events and trade issues by ~30% from 2018-2020.**
- Optimized scheduling of sample load and lab operators **to reduce fixed costs and materials.**
- Manage Citizen Data Scientists in talent-specific projects, working on various global efforts **to build and drive a global data-oriented culture, ensuring a strong future for the organization's analytics.**

### Data Science Intern

#### Virginia Retirement System

05/2017 - 08/2017

Achievements/Tasks

- Developed algorithms and automated systems to produce reliable and consistent statistical reviews to **support investment teams in making multi-million dollar investment decisions.**
- Wrote and monitored data pipelines to check integrity from many financial resources to ensure investment teams can make informed decisions with time.

## EDUCATION

### Bachelor's of Science

#### Virginia Commonwealth University

08/2015 - 05/2019

Applied Mathematics and Economics double major, Computer Science minor

Theses

- The Application of Support Vector Machine Algorithms in Early Glioblastoma Detection
- The Elementary Explanation of Machine Learning Algorithms

## SKILLS

Python Data Science packages: Python3, NumPy, SciPy, Pandas, Matplotlib, Seaborn, Scikit-learn, XGBoost, Tensorflow, PyTorch, NLTK, Scrapy

R Data Science packages: dplyr, ggplot2, shiny, mlr, RCrawler, RMarkdown, plotly

Web development experience with Python, Flask, and Django

SQL Database Management, Object-oriented and systems design experience with Python and Java

Extensive AWS experience: Tensorflow on AWS, Sagemaker, S3, Redshift, AWS Data Pipeline, AWS Lake Formation, AWS RDS,

## OTHER RELEVANT EXPERIENCE

Undergraduate programming project: Ensemble ML Techniques for Satellite Telemetry Anomaly Detection

Undergraduate thesis: Computer Vision for High Quality Venipuncture

Biomathematics NSF Grant- Research Analyst

- Developed novel statistical algorithms to simulate forestry systems behavior.
- Wrangled and cleaned research data to create representative graphs and charts highlighting results for presentations.
- Compiled and analyzed simulation data using statistical methods to determine real-world accuracy.