Ian K. **Eaves**

Data Scientist · Machine Learning Engineer

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"Be the change that you want to see in the world."

Education

Drexel University — *Philadelphia, PA*

M.S. in Physics — *Sep. 2011 - Dec. 2014*

- Computational Quantum Mechanics

Baylor University — *Waco, TX*

B.S. in Physics, Minor in Mathematics — *Sep. 2007 - May. 2011*

Skills

Languages	Python, R, Julia, Matlab, SQL, Scala, LaTeX
DevOps	AWS, Docker, Kubernetes, Ansible, Jenkins, Vagrant, Jenkins, Argo, Airflow
Frameworks	Scikit Learn, Tensorflow, Keras, Pandas, Dask, SpaCy, Tidyverse, Spark
Back-end	PostgreSQL, MongoDB, Django, Flask, REST API,

Experience

Centene — *St. Louis, MO*

Lead Data Scientist — *Jun. 2019 - PRESENT*

- Data Science project lead over the NextGen and population health data science applications.
- Lead a mixed team of seven data scientists and data engineers responsible for developing and propogating new technologies and capabilities within the company.
- Responsible for project planning and coordination with diverse stakeholders across the organization.
- Project architect for internal machine learning deployment and maintenance framework.
- Pioneered the notion of a "Full Stack" data science team within Centene that owned the full application delivery lifecycle from ideation to deployment.
- Technical lead and mentorship for junior data scientists and engineers.

CiBO Technologies — *St. Louis, MO*

Lead Data Scientist — *May 2018 - May 2019*

- Lead a team of data scientists developing smart tooling around data validation and ingestion of incoming messy data.
- Developed and implemented fluid flow models of rainfall distribution across varied geographies.
- Developed and implemented custom software to provide sophisticated light scattering corrections to leaf area index calcuations.
- Worked on unsupervised clustering with metric learning capabilities to drive field level environmental classification.

Monsanto — *St. Louis, MO*

Data Scientist — *Feb. 2017 - May 2018*

- Built and deployed customer demand and behavior forecasting models via GLM and tree based approaches.
- Developed generalized customer segmentation models using K-means clustering with side information.
- Oversaw development and deployment of key customer analytics business metrics driving company wide sales strategies.

Better Weekdays — *St. Louis, MO*

Senior Data Scientist — *May 2016 - Feb. 2017*

- Lead a mixed team of data scientists and data engineers to develop crucial early stage company analytics capabilities.
- Built out early stage BI and analytics capabilities in Metabase.
- Lead the implementation of companies first data warehouse leveraging RabbitMQ, Django, and a custom built stream processing library.
- Deployed customized Lucene based recommendation systems to support core job recommendation functionality.
- Deployed Bayesian Multi-Armed Bandit recommender systems to provide job recommendation capabilities tailored to user preferences.

Bellhops

Chattanooga, TN

Lead Data Scientist

Dec. 2014 - May. 2016

- Lead a mixed team of data scientists and data engineers to develop crucial early stage company analytics capabilities.
- Responsible for analytical work leading to successful close of $13.5 million series B funding round.
- Built out early stage BI and analytics capabilities in Chartio.
- Lead the implementation of companies first data warehouse leveraging AWS, Airflow, and SQLAlchemy.
- Developed and deployed demand forecasting models across all company market segments.
- Oversaw development of early stage machine learning capabilities leveraging NLP, alongside other traditional ML components.

Drexel University

Philadelphia, PA

Doctoral Candidate (ABD)

Sep. 2011 - Dev. 2014

- Developed computational finite element techniques to model Schroedingers Equation on arbitrary two dimensional geometries with special interest in the geometric pseudo potential on bound particles.
- Developed performant finite element system implemented (Matlab) with GPU parallelization in CUDA.
- Molecular dynamic & conformational analysis of AB-42 protein folding and it's role in Alzheimer's formation.
- Teaching undergraduate physics for engineers.

Helmholtz Zentrum Berlin

Berlin, Germany

Research Assistant

Jun. 2012 - Dev. 2012

- Designed & instrumented custom hall sensor array for field characterization in ultra-high magnetic field, cryogenic environments.
- Wrote custom instrumentation software (Borland Delphi).
- Experimental apparatus design in 3D CAD (Solidworks).

Open Source Projects

Visions

An open source library for semantic data.

Publications

Journal Articles

Conference Proceedings