Ian K. **Eaves**

Founder · Machine Learning Engineer · Data Scientist

Madison, WI

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Experience

Founder

Madison, WI

Grai — *July 2021 to present*

- Founded Grai, an open-source platform that simplifies the management of complex data systems.
- Directed an international team of developers and open-source contributors to develop the Grai platform.
- Spearheaded all aspects of early-stage company development, including fundraising, marketing, and product strategy.
- Secured venture backing from investors, including Y Combinator, and onboarded users such as Roblox, Remax, and Axios.

Lead Machine Learning Engineer

St. Louis, MO

Centene — *Jun. 2019 - July 2021*

- Directed a cross-functional team of 7 data scientists and engineers to develop and propagate new technologies across the organization.
- Architected a scalable machine learning deployment and maintenance framework using Kubernetes and Argo.
- Led delivery of machine learning models to provide efficient health care outcomes for Centene's NextGen and population health initiatives.

Lead Data Scientist

St. Louis, MO

CIBO Technologies — *May 2018 - May 2019*

- Led a team of data scientists developing smart tooling for data validation and ingestion of incoming messy data.
- Lead data scientist on company consulting efforts with fortune 500 agricultural clients to improve crop yield and quality.
- Developed new data inputs to enhance Bayesian models for crop growth and yield prediction.
- Engineered field level environmental classification systems used to identify high risk areas for crop failure.

Data Scientist

St. Louis, MO

Bayer — *Feb. 2017 - May 2018*

- Member of Bayer's consumer behavior team responsible for addressing farmer needs through data-driven insights.
- Developed customer demand and behavior forecasting models used to allocate multi-million dollar marketing spend.
- Mentored junior team members working on customer segmentation and market analysis.

Senior Data Scientist

St. Louis, MO

Mentor Spaces — *May 2016 - Feb. 2017*

- Developed early stage BI and analytics capabilities in Metabase.
- Architected complete analytics suite including streaming infrastructure, data warehousing, ETL pipelines, and BI dashboards.
- Built the company's core job matching technology leveraging Bayesian and natural language processing techniques

Lead Data Scientist

Chattanooga, TN

Bellhops — *Dec. 2014 - May. 2016*

- Led a team of data scientists and engineers to establish the company's foundational analytics and machine learning capabilities.
- Drove analytics initiatives leading to a $13.5M Series B funding round.
- Implemented company's early data stack including data warehousing, BI, and ETL pipelines.
- Developed early-stage machine learning including demand forecasting, market segmentation, and customer utilization capabilities.

Education

Masters of Science, Physics

Drexel University — *December 2014*

Bachelors of Science, Physics

Baylor University — *May 2011*

Technologies

Languages	Python, R, SQL, Julia, Matlab, Scala, TypeScript, C++
DevOps	Kubernetes, Docker, Terraform, Ansible, Argo, Airflow, AWS, GCP
Frameworks	Scikit-Learn, Tensorflow, PyTorch, Pandas, Dask, SpaCy, Tidyverse, PySpark, React
Back-End	PostgreSQL, MongoDB, Django, REST, Event Streams

Open Source

Grai

Maintainer

Founded Grai, an open-source platform that simplifies the testing of complex data systems.

Visions

Maintainer

Original co-author of Visions, an open-source library for building semantic data types with over 42M downloads.

YData Profiling

Contributor

Collaborated with the maintainer of YData Profiling (formerly Pandas Profiling) to extend the library with abstracted data profiling capabilities based on semantic data types.

Publications

Journal Articles

Visions: An Open-Source Library for Semantic Data
Ian Eaves, Simon Brugman
Journal of Open Source Software 5.48 (2020) p. 2145. The Open Journal, 2020

Time-dependent Spatial Intensity Profiles of Near-Infrared Idler Pulses From Nanosecond Optical Parametric Oscillators
L. J. Olafsen, J. S. Olafsen, I. K. Eaves
Applied Physics B 124.6 (May 2018) p. 110. 2018

Synchronized Mid-Infrared Beam Characterization of Narrow Gap Semiconductors
L. J. Olafsen, I. K. Eaves, J. S. Olafsen
AIP Conference Proceedings 1416.1 (2011) pp. 88–90. 2011