

Trent Hauck

trent@trenthauck.com

Work Experience

Zymergen zymergen.com

Oct. 2016 — Present

Senior Data Scientist

- Technical lead for a set of decision support tools used by biologists and process engineers to evaluate phenotype and process effects in the high-throughput screening analysis pipeline.
- Technical lead for a genetic edit recommendations tool used during strain optimization programs, including "cold start" and later stage strategies.
- Developed and maintained several containerized services for data storage and retrieval.
- Built batch and event based data pipelines, which included inline statistical training, scoring, and prediction.
- Contributed to internal software used by 200+ engineers and scientists.
- Led adoption of Python 3, including evangelizing and identifying strategic bottlenecks for wide-scale use.

Metis thisismetis.com

Dec. 2016 — Present

Instructor

- Courses Taught: Introduction to Data Science, Live Online Data Science, Live Online SQL Fundamentals (2x).

Consultant

May 2015 — Sept. 2016

Principal

- Built LTV scoring pipeline used to inform marketing buys. Pipeline determined current value of incoming lead based on probabilities of purchasing certain policies given lead features, and likely duration of the policy being in-force.
- Consulted with a web analytics consulting firm to improve infrastructure for processing 3rd party APIs for their clients.
- Embedded with a team at an e-commerce company to develop their first recommendation system – the model based on Latent Dirichlet Allocation, produced item-to-item and item-to-user recommendations which was deployed as a microservice called by the main site.

Zulily zulily.com

Feb. 2014 — May 2015

Data Scientist

- Built and deployed recommendation services to improve customer experience. Focusing on improving user/item recommendations and feature extraction and representation learning.

- Performed statistical analysis on business operations such as the impact of customer repurchases as a function of product delivery duration and other factors.
- Provided internal consulting to marketing and accounting department to improve decision making through experimentation. For example, helping accounting to estimate total warehouse inventory given a sample count.

Alight Analytics alightanalytics.com

Aug. 2012 — Feb. 2014

Data Scientist

- Develop scalable architecture and ETL system to support adding additional data sources with little effort.
- Led reporting and analysis including content strategy and report implementation for several clients.

Published Books

- [SciKit-Learn Cookbook](#) through Packt Publishing, Published Nov. 2014
- [Instant Data Intensive Apps with pandas How-to](#) through Packt Publishing, Published May 2013

Talks

- Automating Components of Chemical Design, Convoy Data Speaker Series, 2018
- Representation Learning for Graphs and Networks, Kansas City Developer Conference, 2018
- Using an RNN to Make Song Recommendations, Seattle Data Science, 2016
- Low Friction NLP with gensim at PyData Seattle, 2015
- Analytics for Developers at KC Developer Conference, 2013
- Python for Data Science at Data Science KC, 2013

Education

Coursera

Summer 2018 — Present

Genomic Data Science Specialization

- Took seven online courses related to the processing and statistical analysis of genomic data sets.
- Conducted RNASeq Analysis to find differentially expressed genes when comparing adult and fetal brain samples. This included aligning reads, feature counting, and hypothesis testing.

University of Kansas

Winter 2011

M.S., Finance; B.S. Accountancy

- Performed research on Support Vector Machines for stock market prediction.
- Courses in Machine Learning, Data Mining, Econometrics, Probability, Statistics, Programming, FPGA Development
- Research Assistant at E&Y CARAT, worked on the FRAANK project conducting NLP research on Securities and Exchange Commission filings.