

Brendan “B” Herger

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Summary

Proven Fraud & Payments Machine Learning Engineer with 8 years of experience and \$41m/year measured impact. Recognized for end-to-end project ownership, tech leadership, and individual contributor expertise in ML, data engineering, data science, and experiment design

Experience

Uber Senior Machine Learning Engineer | San Francisco, CA | 10/2020 to Current

Delivered 4 ML solutions while acting as tech lead, product lead and ML individual contributor

- Generated \$41.5M annually in experiment-measured impact by proposing, designing, and implementing ML systems: \$15M for predictive outflow based courier deactivation platform, \$22M for requiring driver/spender pin exchange for high-risk UberEats trips, and \$4.5M for ML platform to redispach non-progressing and deviating drivers
- Reduced global user defect rates by 5.4%, by designing and implementing a predictive Machine Learning platform for required pin exchange on Uber Mobility trips
- Pride at Uber 🏳️: Global executive board member

Convoy Senior Research Scientist | Seattle, WA | 04/2019 to 10/2020

Delivered 3 ML solutions while acting as tech lead, back end engineer and ML individual contributor

- Created 4.3% experiment measured decrease in truck costs and grew batched shipment rate 0.5% -> 18% by designing and implementing batch shipment platform
- Created \$10.5m / year experiment measured reduction in truck costs by designing and implementing batch shipment generation, ranking, and pricing ML solutions
- XP peer review council member, ML peer review council founder, founder of Pride@Convoy

Kaplan Senior Data Science Instructor | Seattle, WA | 03/2018 to 04/2019

- Developed and deployed 14 teaching modules for Kaplan Universities graduate analytics program, and Metis corporate training and other programs. Topics included model infrastructure, NLP, leading data teams, Deep Learning and Spark

Capital One Senior Machine Learning Engineer | San Francisco, CA | 06/2015 to 03/2018

- Implemented real-time model serving platform supporting 500 QPS with 10 ms latency and 99.999% uptime, used for production authorization and fraud models

Other

- Technical advisor: Synergise AI, Simple Intelligence, Astre Inc.
- Board member: Three Dollar Bill (Seattle Queer Film Festival), Lavender Rights Project
- Volunteer: Maven Youth, American Red Cross, Three Dollar Bill Cinema

Education

Masters of Data Science

University of San Francisco | 05/2014 to 06/2015

Bachelors of Physics

University of San Francisco | 05/2011 to 05/2014

Minor in Mathematics

Minor in Computer Science

Skills

This is mostly for regex and resume tracking systems.

- Languages: Python, Java, R, SAS, Stata, Scala, Shell, SQL
- Cloud Platforms: AWS, GCP
- Machine Learning: Supervised machine learning, Unsupervised machine learning, Natural Language Processing (NLP), Time series modeling (ARIMA, RNNs), Model serving infrastructure, ML observability, ML automation, Data Engineering, Experimentation for ML
- Data Science, Experimentation design, Causal impact, A/B testing, Difference in differences experiment design
- Packages & frameworks: Spark, Keras, TensorFlow, Docker, Kafka, Pandas, Numpy, SKLearn, NLTK, Hadoop (HDFS, Yarn, Hive, Presto), AWS (ECS, S3, EC2, Sagemaker, Redshift), SQL (MySQL, Postgres, PostgreSQL, SQLite), Airflow, Apache Beam, Apache Flink
- Project management: Certified Scrum Master (CSM), Agile methodologies, Jira

Intros

If you're looking for conversation starters, feel free to ask me about

- Training for the SF Marathon
- Helping run the [Seattle Queer Film Festival](#)
- Growing up in SF
- Taking an annual solo trip (past trips include Tokyo, Beijing, Istanbul and London)