

## WORK EXPERIENCE

---

### Spotify

Mar 2021 – Dec 2023

*Senior Machine Learning Engineer*

New York, NY

- Worked on Hendrix, Spotify's centralized ML platform;
- Tech lead for Hendrix's experiment-tracking layer. Led team of four engineers to deliver an MLflow-based MVP in half a quarter. Responsible for defining the strategy and roadmap for experiment-tracking and artifact management within Hendrix;
- Spearheaded development of Hendrix Registry as part of company-wide AI/ML governance initiative; collaborated with stakeholders in Legal, Trust & Safety, etc. to deliver an AI system and model card solution based on Backstage and Kubernetes-based declarative infrastructure under tight deadline constraints, resulting in over 100 models registered by 40 teams company-wide in less than a quarter;
- Brought Hendrix's flagship Kubeflow-based orchestration product to general availability; defined multi-quarter engineering roadmap in collaboration with product and engineering stakeholders across ML Platform and user teams; contributed to increase in Hendrix adoption of 50% and increase in measured user satisfaction of 10%;
- Active mentor and career coach to junior IC team members across the ML Platform org; held bi-weekly one-on-ones to provide technical/career mentorship and act as brainstorming partner. Successfully identified and carved out long-term areas of ownership for two junior ICs that have since become defining pillars of their respective careers.

### NVIDIA

Dec 2019 – Jan 2021

*Senior Systems Software Engineer, AI Infrastructure*

New York, NY

- Worked on AI infrastructure for autonomous vehicle research and development;
- Initiated development of solution for "hybrid data/model parallelism" using a Ray-based parameter server design and Horovod to enable horizontally-scalable multi-task training;
- Co-delivered a Kubernetes-based scheduling mechanism to enable priority access to cluster resources for select use cases, e.g. prep for upcoming external demos, via virtual "resource shares".

### Twitter

Aug 2018 – Dec 2019

*Machine Learning Software Engineer*

New York, NY

- Member of Cortex, Twitter's central ML platform organization. Worked on: workflow orchestration; experiment management/iteration; and overall ML engineering productivity;
- Enabled distributed training of TensorFlow models in Apache Mesos from an Airflow pipeline via Deepbird, Twitter's TensorFlow-based model training/evaluating/serving framework

### Uber

Jul 2016 – Jul 2018

*Software Engineer, Observability*

New York, NY

### OkCupid

Jul 2015 – Jul 2016

*Software Engineer*

New York, NY

## EDUCATION

---

**University of Chicago** *B.S. Computer Science, B.A. Economics*

2011 – 2015

## SPEAKING

---

**TWIMLcon AI Platforms**, "How Spotify is Navigating an Evolving ML Landscape with Hendrix Platform"

Oct 2022

**MLconf**, "Empowering Traceable and Auditable ML in Production at Spotify with Hendrix"

Mar 2022

**KubeCon + CloudNativeCon**, "Scaling Kubeflow for Multi-tenancy at Spotify"

Oct 2021

## SKILLS

---

- **Programming Languages:** Python, Go, C++, Java
- **Machine Learning and MLOps:** Ray, Kubeflow, Airflow, TensorFlow, TensorFlow Extended (TFX)
- **Infrastructure and Distributed Systems:** Google Cloud (GCP), Kubernetes, Terraform, Prometheus, gRPC, Docker, Backstage