# JONATHAN JIN

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## SELECT WORK EXPERIENCE

### Hinge

**Staff Machine Learning Platform Engineer**　　　　　　　　　　New York, NY, Apr 2024 – Current

*Leading the platformization of Hinge's AI/ML efforts.*

### Humane Intelligence

**Engineering Advisor**　　　　　　　　　　　　　　　　　　　New York, NY, Feb 2024 – Current

*"Fractional" tech lead and architect. Partner with the CEO to define and execute on engineering strategies, including hiring and vendor selection. Contribute in hands-on capacity for technical proofs-of-concepts.*

### Spotify

**Senior Machine Learning Engineer**　　　　　　　　　　　　New York, NY, Mar 2021 – Mar 2024

*Senior member of the ML Platform organization; contributed to and maintained Hendrix, Spotify's centralized machine learning platform. Primarily focused on managed multi-tenant compute infrastructure for Kubeflow and Ray in GCP. Later shifted focus to AI/ML governance and artifact/experiment management solutions.*

- Evaluated Ray for adoption into the Hendrix platform in collaboration with the maintainer team at Anyscale; informed the development of Hendrix's initial centralized multi-tenant Ray instructure based on KubeRay;
- Spearheaded development of Backstage-based model card solution in collaboration with non-technical stakeholders (Legal and Trust & Safety) in preparation for the EU Digital Services Act;
- Brought Hendrix's flagship Kubeflow-based orchestration product to general availability; defined multi-quarter engineering roadmap in collaboration with product and engineering stakeholders spanning infrastructural (SLOs, observability) and user-facing (documentation, API cleanliness) needs.

### NVIDIA

**Senior Systems Software Engineer, AI Infrastructure**　　　　New York, NY, Dec 2019 – Jan 2021

*Worked on AI infrastructure for autonomous vehicle research and development.*

- Implemented prototype for horizontally-scalable model-parallel training for multi-task learning using parameter server approach based on Ray and Horovod;
- Implemented a custom Kubernetes scheduler for preemptible workloads and resource reservations in an on-prem GPU cluster

### Twitter

**Machine Learning Software Engineer**　　　　　　　　　　　New York, NY, Aug 2018 – Dec 2019

*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

## 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
- **Infrastructure and Distributed Systems**: Google Cloud (GCP), Kubernetes, Terraform, Prometheus, gRPC, Docker