JONATHAN JIN

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SELECT WORK EXPERIENCE

Hinge

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

Leading the platformization of Hinge's various AI/ML efforts (recommendations, trust and safety, user growth and retention, etc.).

- Re-architected photo-scoring pipeline for Top Photo to enable multi-plexed rescoring of user photos in near-real-time using Databricks Delta Live Tables, Spark, Flink, and Ray Serve; reduced rollout time of new photo-scoring models from months to one week.
- Defined the technical direction of Hinge's model serving strategy. Conducted in-depth and methodical evaluation of two solutions (Ray Serve and Databricks Model Serving) and defined multi-quarter development roadmap.

Spotify

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

Senior member of the ML Platform org. 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.

- Drove early-stage evaluation and implementation of centralized, multi-tenant Ray infrastructure based on KubeRay;
- Spearheaded development of Backstage-based model governance solution in preparation for the EU Digital Services Act;
- Defined and drove general-availability roadmap for Kubeflow-based orchestration product; defined SLOs and educated ML Platform org on SRE best practices.

NVIDIA

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

Worked on AI infrastructure for autonomous vehicle research and development.

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.

EDUCATION

University of Chicago *B.S. Computer Science, B.A Economics* 2011 – 2015

SPEAKING

Ray Summit, "Accelerating Time-to-Production for ML at Hinge" Sep 2024
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

- **Machine Learning and Data**: Ray, PyTorch, Apache Spark, Apache Flink, MLflow, Apache Airflow, Kubeflow, TensorFlow
- **Infrastructure and Distributed Systems**: Kubernetes, Terraform, Prometheus, gRPC, Docker
- **Enterprise Platforms**: Amazon Web Services (AWS), Google Cloud (GCP), Databricks
- **Programming Languages**: Python, Go, C++, Java