

Jonathan Jin

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jjin.info

Experience

Twitter

Member of [Twitter Cortex](#), working on machine learning platform and infrastructure.

Machine Learning Software Engineer

08/2018 – Present, New York

- Core contributor to [ML Workflows](#), Twitter's platform for productionizing ML deployment pipelines
- Leading long-term effort to address workflow “composability”—the ability to rapidly experiment with, prototype, and iterate on machine learning productionization pipelines (see [Speaking](#))
- Implemented tight integration and interoperability between the ML workflow engine and [Deepbird](#), Twitter's TensorFlow-based model training/evaluating/serving framework

Uber

Member of [Observability Applications](#), working on forecasting and anomaly detection for time series metrics.

Software Engineer

07/2016 – 07/2018, New York

- Re-architected time-series metric forecasting pipeline to support concurrent batch backfilling; reduced asymptotic burden on [underlying data store](#) by ~90% (see [Writing](#))
- Extended anomaly detection platform to support multiple forecasting models; carried out migration to intercommunicating services with zero downtime and full backwards compatibility (see [Writing](#))

OkCupid

Software Engineer

07/2015 – 07/2016, New York

Skills

Languages: Go; Python; C++; Java; Bash; Matlab/Octave; R; C

Infrastructure: Apache Airflow; Apache Aurora; Apache Thrift; Apache Cassandra

Education

Columbia University

Independent Graduate Coursework

September 2017 – December 2017

Noteworthy Coursework: Machine Learning

University of Chicago

B.S. Computer Science, B.A. Economics

September 2011 – June 2015

Speaking

“ML Workflows at Twitter: Lessons Learned”

[AI NEXTCon, New York, 2019](#)

Writing

[Implementing Model-Agnosticism in Uber's Real-Time Anomaly Detection Platform](#)
[Engineering a Job-based Forecasting Workflow for Observability Anomaly Detection](#)

Uber Engineering Blog
Uber Engineering Blog

Projects

[derain-net](#)

WIP: A reimplement of the deep-network-based technique for single-image rain-removal developed by Fu, Huang, Ding, Liao, and Paisley ([arXiv:1609.02087v2](#)).