Jonathan Jin

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jjin.info

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

Skills

Languages

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

Technologies

Apache Thrift; Cassandra; MySQL

Experience

Uber Technologies

Member of Observability Applications, working on scalable, real-time time-series forecasting and anomaly detection.

Software Engineer II 08/2017 – Present, New York

- Re-architected time-series metric forecasting pipeline to support concurrent batch backfilling; reduced asymptotic burden on underlying data store by ~90% (see Publications)
- Enabled rapid refinement of production forecasting models by designing service to dynamically compare results of developmental models with production counterparts against production metric data, dynamically generating Jupyter graphic comparison reports

Software Engineer I 07/2016 – 08/2017, New York

- Extended anomaly detection platform to offer first-class support for online forecasting for multiple forecasting models; carried out migration and onboarded functionality to distinct, intercommunicating services with zero downtime and full backwards compatibility (see Publications)

OkCupid

Software Engineer 07/2015 – 07/2016, New York

- Implemented collaborative filtering for user search, increasing users' "like" rate by 10%
- Implemented and carried out large-scale reconciliation/migration of ~10m i18n data points; used Euclidean distance minimization and soundex-based "fuzzy" name matching to reconcile formatting and nomenclatural inconsistencies between disparate datasets

Projects

derain-net

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

Publications

Uber Engineering Blog

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