Jonathan Jin

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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

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

Technologies

Apache Thrift; Cassandra; MySQL

Experience

Uber Technologies

Member of Observability Applications, working on scalable anomaly detection for whitebox monitoring and alerting.

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%
- 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)
- Designed strategy for integrating Holt-Winters triple-exponential smoothing as forecasting model for whitebox system metrics

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