

Weston Jackson

<http://www.westonjackson.github.io>

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EDUCATION

• Columbia University

M.S. in Computer Science, Machine Learning, GPA: 4.0
B.A. in Computer Science, GPA: 4.0

New York, NY

October 2019

May 2017

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, C, Go, Scala, Javascript
- **AI & Machine Learning:** TensorFlow, Predictive Modeling, ML Inference
- **Technologies:** SQL, Snowflake, Kafka, MongoDB, Docker, Kubernetes

EXPERIENCE

• Google

Staff Software Engineer - Ads New York, NY
June 2021 - Present

- Proposed, designed, and implemented Google Ad Manager, AdSense, and AdMob optimizations that generated 100M in incremental publisher revenue.
- Led an engineering team to launch an ML-driven throttling model using TensorFlow that saved 16 SWE of resources while maintaining 99.8% of revenue.
- Technical lead on display and video auction unification project that fixed systemic gaps in behavior, simplified serving infrastructure, and increased publisher revenue.
- Established subject matter expert on Google Ad Manager, AdSense, and AdMob auctions across many high priority projects.

• Citadel

Quant Developer - Commodities Singapore / New York, NY
September 2019 - May 2021

- Created the technology platforms for teams trading Financial Transmission Rights (FTR), Distillates, and Crude and Refined Products.
- Worked closely with Portfolio Managers and Quantitative Researchers to create data pipelines, prediction algorithms, and web applications for generating alpha.
- Led the tech buildout that enabled the FTR team to analyze, model, and participate in MISO and PJM auctions.
- Built the ship-tracking platform and designed the vessel prediction algorithms for Global Freight.

• Xandr

Software Engineer - Ads New York, NY
July 2017 - August 2019

- Developed budgeting and valuation algorithms for Xandr's demand-side platform.
- Designed machine learning algorithms for post-click and post-view cost-per-acquisition (CPA) optimization.
- Scaled Python and Java streaming applications to optimize millions of dollars of daily ad spend.
- Improved and maintained the real-time programmatic advertising infrastructure written in C.

PROJECTS

• Approximate Near Neighbor Search under ℓ_∞

May 2019

- Survey on data structures for Approximate Near Neighbor (ANN) search in ℓ_∞ normed spaces.
- Proposed two original data structures for ANN search that have good space/time bounds in low-dimensions.

• Deep Learning for Network Traffic Classification

December 2018

- Predicted Server Name Identification (SNI) from HTTPS features using deep learning.
- Compared performance of Random Forest, CNN, RNN, and ensemble methods.

• 2-Way k-Means: A Model for Microbiome Samples

August 2017

- Clustering research with Professor Itsik Pe'er for the Human Microbiome Project.
- Paper presentation at KDD 2017 and published in the Journal of Healthcare Engineering, vol. 2017.