Ilya E. Khruschev

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Data Scientist and Engineer with expertise in experimental design, machine learning, applied statistics, team building, and analytics, who brings insatiable curiosity, ideas, and solutions. Eight years designing and building experiments and end-to-end data and ML pipelines, and collaborating with internal leadership and C-suite client executives at Snowflake, SpaceX, Cardinal, IBM, CTA-CES, Department of Homeland Security, and Department of Defense.

Data Science – Developed geo-location streaming architecture to track military targets and coordinate missions.
Experimental Design – Designed experiments measuring the effects of impressions, budget, etc. on AdTech metrics.
Analytics – Served as embedded analytics lead with Engineering, Customer Success, Marketing, and Finance depts.
Team Development – Built and mentored BI teams to create more profitable analysis product and predictive models.
ML Engineering – Proposed/built real-time data analysis and automated news reading services for Fortune 500s.
Data Engineering – Designed centralized military EMF database and automated media analysis generation.

Python   Spark   SQL   NoSQL   BigQuery   Tableau   ElasticSearch   Presto   Trino   Heap

Hive   Jenkins   Airflow   Pentaho   Mac OS   Linux   Git   Docker   AWS   GCP   Azure Devops

EXPERIENCE

Senior Data Scientist | ML, AdTalem   Chicago, IL (R)   2023 – Present
- Developed and implemented enrollment forecasting models, reducing total marketing budgets by 18%.
- Deployed a student payment propensity model, leading to a projected $7.2M yearly return in account repayments.
- Manage team of data scientists and junior data scientists.

Senior Data Scientist | Product Analytics, NextRoll   San Francisco, CA (R)   2021 – 2022
- Directed multiple cross-platform projects between Engineering, Customer Success, Marketing, Finance, etc.
- Designed A/B tests evaluating new product features driving customer engagement and reducing customer churn.
- Built data pipelines for and evaluated bounce rates, conversion rates, and other KPIs for customers.
- Served as customer facing lead for our largest customer, applying a strategy to evaluate their AdTech business.

Data Scientist | Engineer, Expression Networks   Washington, DC   2020 - 2021
- Designed and built ETLs to create centralized database for military Electromagnetic Frequency Spectrum data.
- Built big data streaming pipeline processing 2M+ geo coordinates/day and meta data for mission critical decisions.
- Developed easy-to-use ML healthcare models for real-time battlefield analysis and private sector hospital use.

ML Engineer, Attain   McLean, VA   2020
- Recruited to design and develop ML pipelines and models, reporting to the software engineering principal.
- Built DevSecOps AI / ML pipelines in big data systems for USCIS at DHS, under a secret-level security clearance.

Data Scientist, PublicRelay   Tysons Corner, VA   2018 - 2019
- Prototyped and visualized models for binary classification and time series analysis for Fortune 500 clients.
- Designed and coded multi-class multi-label classification models to automate sorting and article labeling.
- Created AI / ML solutions using SVMs and Deep Neural Networks for media analysts and end-users.
- Researched NLU application for chatbots to provide real time customer assistant to clients/analysts.

Business Intelligence Analyst, PublicRelay   Tysons Corner, VA   2017 - 2018
Business Analyst, PublicRelay   Tysons Corner, VA   2015 - 2017
Media Analyst | Account Manager, PublicRelay   Tysons Corner, VA   2013 - 2015

EDUCATION

MS Candidate - Statistics, The George Washington University   2016 - 2017

BBA Degree - Finance/Statistics, The George Washington University - School of Business   2013