

Sam Kritchevsky

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PROFESSIONAL SUMMARY

I am a software engineer and data scientist with 5 years of professional experience. I previously worked at SeatGeek, where I was the tech lead for a six-member Data Platform team after serving in various other roles across the data organization during my tenure. I am most at home in the domain of data engineering, but I also have plenty of experience with ML-eng, Data Science, Analytics, backend, and full-stack engineering—I often describe myself as a "data generalist".

Before my tech career I was enrolled in a Ph.D. program in physics, and I still maintain a hobbyist interest in physics, math and math education, and occasionally still write essays on these topics, which can be seen on my personal site.

Please note that I am currently re-entering the tech industry after a few years away. In the meantime I have been working on personal projects, writing on my [Substack](#), traveling, taking piano lessons, and working as a private math and physics tutor.

TECHNICAL SKILLS

Languages	: Python, SQL. Some Typescript, Javascript, Scala.
Tech	: PostgreSQL, DBT, Spark, Flink, RabbitMQ, Elasticsearch, Redis, PostGIS, Pandas, Numpy, Tensorflow, Docker, Luigi, Dagster, Akka, React, Svelte, Docker, Nomad
Cloud Tech	: Various AWS, incl. Redshift, Redshift Spectrum, Kinesis, Kinesis Firehose, S3, Lambda, EMR, Glue, IAM, RDS.
Roles	: Data Engineering, Data Platform, Backend Engineering, ML Engineering, Data Science, Analytics

EXPERIENCE

SeatGeek	2016-2021
<i>Sr. Software Engineer, Data Platform</i>	2020-21
Tech lead of the Data Platform team. Our projects included:	
<ul style="list-style-type: none">A rewrite of our clickstream ingestion service, massively improving scalability and fault tolerance, particularly during spiky event on-sales, and enabling fanout to many downstream applications. Tech: Flink, SparkEstablished a standardized notebook stack for use by our data science teams, which allowed DS analysis work to be shared reproducibly across the team and to be incorporated into production data pipelines. Tech: Jupyter, PapermillRolled out a centralized system data documentation, lineage, and discovery. Tech: Amundsen, Airflow, AWS Neptune.Owned and maintained the streaming data pipelines for ticket inventory, search, clickstream, and experimentation data. Tech: Spark, Akka Streaming, Python, AWS Kinesis.Owned and maintained the core analytics stack, which backed our BI layer and served data needs for many departments. Tech: Druzhba, DBT, Luigi, Redshift, Looker.	
<i>Senior Data Scientist</i>	2019-20
<i>Data Scientist</i>	2017-19
I specialized on user preference signals, our live event catalog, and push marketing. Projects included:	
<ul style="list-style-type: none">Recommendation algorithms for weekly newsletter and various cart abandonment and price-drop notifications, tripling the revenue attributed to email notifications. Tech: Spark on AWS EMR, SQL.Event and performer popularity models, feeding into event recommendations and search. Tech: Tensorflow, Keras, Numpy.Rewrite of entity-linking algorithm, which deduplicated users and device for marketing attribution and use in funnel KPIs. Tech: SQL, Luigi.Ongoing involvement in the design and measurement of metrics for recommendations, search, and push marketing.	
<i>Software Engineer, Discovery</i>	2016-17
<ul style="list-style-type: none">Backend engineering and data analysis for frontpage recommendations, search, social features, and push marketing.I built a simple reverse-ETL system to push datasets from our Data Warehouse into production PostgreSQL and MySQL databases.	
Other	
<i>Private Math Tutor, Club Z Tutoring</i>	2024-2025
<i>Volunteer Data Analyst, Greater Harlem Coalition</i>	2022
Contributed data analysis, writing, editing, and website administration for a community advocacy group, using a data pipeline built with DBT, Python, Dagster, and PostGIS (code here .)	
<i>Physics Graduate Student and Teaching Assistant</i>	2014-2016
My research interests involved statistical mechanics and dynamical systems.	

EDUCATION

University of Wisconsin	Madison, WI
<i>Physics Ph.D. Student</i>	2013-2015
University of North Carolina	Chapel Hill, NC
<i>B.S. Physics, Math Minor</i>	2012