

# Sam Kritchevsky

Location: New York, NY

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## ABOUT ME

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I'm a software engineer with 5 years' experience.. My professional experience is primarily as what might be called a "data generalist". I contributed to a modern data stack in many capacities: backend SWE, DE, ML, DS, and analytics. I primarily use Python, Scala, and SQL, and have a strong math background. I'm currently returning to work after a personal sabbatical, looking for a position where I can be productive quickly and where my work can have strategic impact. I'm also interested in roles in adjacent or specialized areas like full-stack engineering and ML.

## TECHNICAL SKILLS

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<b>Languages</b>	: Python, Scala, SQL, Typescript
<b>Technologies</b>	: PostgreSQL, Redshift, Elasticsearch, Redis, PostGIS, Spark, Flink, RabbitMQ, DBT, Docker, Luigi, Dagster, React, various AWS (EMR, Lambda, Kinesis, S3, Neptune).
<b>Roles</b>	: Data Engineering, Data Science, Data Platform, Backend Engineering, Analytics, ML Engineering

## EXPERIENCE

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<b>Seatgeek</b> <i>Sr. Software Engineer, Data Platform Tech Lead</i> Tech lead of team of six engineers. Projects included: <ul style="list-style-type: none"><li>Rewrite of our in-house event ingestion service in Flink + Kafka, adding features and massively improving scalability. I advocated for the project, designed the system, and implemented most of the business logic. Functionality included:<ul style="list-style-type: none"><li>Fanouts to front page recommendations, push notifications, Redshift, and a planned online feature store.</li><li>Realtime sessionization, supporting late-arriving data.</li><li>Validation against a repository of JSONSchemas with realtime alerting</li></ul></li><li>Rollout of a standardized Jupyter setup based on Docker, Papermill, and NBViewer.</li><li>Deployment of Amundsen, an OSS data-discovery platform, with a custom AWS Neptune backend.</li><li>Owned and maintained the core data stack of <u>Druzhba</u>, DBT, Looker, Luigi, Redshift, and other AWS products.</li></ul>	2016-2021 1.5 Years
<i>Sr. Data Scientist, Data Scientist II</i> <i>Data Scientist II</i> Specialized in user recommendation signals and our event catalog, working in Spark, SQL, and Python. Projects included: <ul style="list-style-type: none"><li>Algorithms for the weekly newsletter, cart abandonment and price drops notifications, in Spark + SQL. (This work tripled the revenue associated with the weekly newsletter.)</li><li>Event and performer popularity models for event recommendations and search, built with Keras</li><li>Entity-linking algorithm deduplicating users and device for marketing attribution and funnel KPIs.</li><li>Ongoing involvement in design and measurement of metrics for recommendations, search, and CRM marketing.</li></ul>	2.5 Years
<i>Software Engineer, Discovery</i> Contributed features for search, CRM marketing, and frontpage recommendations.	1 Year
<b>Other Experience</b> <i>Greater Harlem Coalition (volunteer)</i> Contributed data analysis, writing, editing, and website administration for a community advocacy group. My data pipeline uses DBT, Python, Dagster, and PostGIS (code <a href="#">here</a> .)	2022
<i>Physics Recitation Teacher</i>	2014-2016

## EDUCATION

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