

Zachary Mullins

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EXPERIENCE **Pinterest, Senior Software Engineer** Mar 2025 | Present

- Leading a cross-team effort for the migration from Apache Druid to Starrocks, saving \$1M+ in annualized infrastructure costs.
- Implementing new data pipelines, workflows and redesigning the Ads Reporting service architecture for the migration.
- Launched the first phase of the migration successfully, enabling over 100TB of metrics data to be queried at sub-second latency and 99.9% reliability across reporting APIs.
- Serving as a mentor to other engineers, a primary contributor to oncall, and regular interviewer

Pinterest, Software Engineer Aug 2022 | Mar 2025

- Implemented the Ads Reporting component of several product launches including Business Overview.
- Re-designed Pinterest Ads Reporting architecture to be multi-advertiser by default, unblocking several cross-advertiser products.
- Point of contact and regular presenter of Ads Reporting query optimization and usage of Druid and Starrocks

Amazon, Software Engineer I, Software Engineer II Jul 2020 | Aug 2022

- Subject matter expert and owner of delivery dates and shipment location predictions products within Supply Chain Optimization Technology
- Launched a new product that empowers teams to adjust delivery date calculations based on supply chain constraints
- Designed and implemented a machine learning pipeline that predicts where future shipments will originate from

SKILLS

Programming Languages: Java, Python, Scala, C++, Javascript
Data Systems: Druid, Starrocks, Spark, Airflow, Hive
Other Technologies: AWS, Terraform, Spinnaker, Claude Code

EDUCATION **University of Western Ontario, B.E.Sc. Mechatronics Engineering, B.Sc. Computer Science** Sep 2015 | Apr 2020

PUBLICATIONS **Monster Scale Summit, March 2026**

"Pinterest's Ad Reporting & Budget Optimization Data Architecture", Sanchay Javeria, Zachary Mullins

U.S. Patent #11961014, April 2024

"Generating and presenting user insights in association with user-to-user electronic communication"