

Isaac Lall

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Skills

Languages Java, Python, Javascript, SQL, Golang, C, Kotlin, HTML, CSS

Technologies Express.js, React.js, Node.js, GraphQL, MongoDB, MySQL

Tools Datadog, Docker, SQLAlchemy, Git, Github

Work Experience

The Weather Network · SOFTWARE ENGINEER · TORONTO

May - Present

JavaScript · Node.js · React · AWS · Dataflow · BigQuery · REST

- Developed an E2E dashboard, enabling **200+** brands to seamlessly add, manage, and target their advertising campaigns
- Created a user activity tracking system for the ad campaign dashboard, providing insights for over **5000+** system audits
- Assisted in the migration of **50+** ad platform APIs, facilitating efficient connectivity with a new ad management system

Power - Acquired by Marqeta · SOFTWARE INTEGRATION ENGINEER · TORONTO

February - April 2023

Java · Spring · Kotlin · AWS · Postgres · REST

- Integrated Marqeta and Power's card issuing REST APIs, leading to a **31%** improvement in transaction processing times
- Built an API gateway as a microservice, consolidating Power-Marqeta API calls and achieving a **70%** cut in network traffic
- Engineered the integration of Marqeta's customer credit statement system, ensuring **99%** accurate financial data mapping

Spotify · SOFTWARE ENGINEER · NEW YORK

Sep - Dec 2022

Java · Python · Google Cloud · AWS · Cassandra · GraphQL

- Engineered data pipelines to ingest user impressions to help build more accurate curated playlists for **400M+** users
- Built micro-services to support the real-time deploying of ML algorithms generating music recommendations **5X** faster
- Programmed BigQuery optimizations for Spotify Wrapped 2022 bringing down music-taste calculation time by **30%**

Bolt · SOFTWARE ENGINEER · SAN FRANCISCO

May - Aug 2022

Golang · Typescript · React · Postgres · GraphQL · Datadog · AWS

- Designed an upsell popup during merchant onboarding for Bolt fraud protection increasing product purchase rate by **74%**
- Integrated Bolt with a service enabling **300+** merchants to view videos of checkout sessions to help debug shopper issues
- Built integration testing framework for Bolt's user invitation system leading to an **18%** decrease in production build failures

Bolt · SOFTWARE ENGINEER · SAN FRANCISCO

Aug - Dec 2021

Golang · Typescript · React · Postgres · GraphQL · Datadog · AWS

- Built API endpoints to enable **10mil+** shoppers to checkout with Forever21's products directly on Pinterest with one click
- Implemented webhook handlers to add BNPL options like Affirm to Bolt's checkout modal boosting merchant sales by **8%**
- Wrote GQL mutations allowing shoppers to split up items in their order into home delivery and in-store pickup, which was used by **30k+** shoppers in 1st week of launch

Loblaw Companies Limited · DATA DEVELOPER · TORONTO

Jan - Apr 2021

Java · Google Cloud · React · MySQL · Firebase

- Engineered an async pub/sub message subscriber for the online grocery delivery service, processing **1000+** orders/min
- Developed a testing framework to simulate orders and picking scenarios reducing testing time by **40%**

LoyaltyOne · A&I ANALYST · TORONTO

May - Aug 2020

Kotlin · PySpark · MySQL · Node · GraphQL · Angular

- Deployed a backtracking algorithm using 'relevance mapping' to parse **500+** lines crash logs to output filtered stack traces
- Built a scalable data pipeline to perform ML inference on **1-mil+** rows of Air-Miles data to predict customer segmentation

Education

University of Waterloo · BACHELORS OF HONOURS MATHEMATICS (CO-OP)

2018 - 2023