

# Zheng (Matthew) Lin

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## EXPERIENCE

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**Loblaw Digital, Senior Developer (Promoted from Developer II) | Hybrid (Toronto, CA)** July 2022 - Present

- Led architecture and development of a customer engagement backend platform (Java Spring Boot, GCP Pub/Sub), driving a 130% increase in pharmacy user engagement within 2 months of launch.
- Designed and implemented a scalable data processing pipeline using Apache Airflow, ingesting SFTP data into BigQuery and generating computed documents for Elastic, enabling near real-time search and analytics.
- Architected high-volume backend APIs supporting critical digital experiences, improving feature delivery speed by 30% while maintaining strong reliability and performance.
- Built an API Orchestrator service to aggregate multi-source APIs, reducing frontend complexity and accelerating cross-product feature rollout.
- Designed API gateway and network layers using Apigee and Akamai, strengthening API security, performance optimization, and uptime.
- Implemented CI/CD automation and leveraged GCP services (Cloud Storage, Pub/Sub, Cloud Functions) to build resilient, scalable backend systems.
- Optimized MySQL queries and database operations to ensure data integrity and system efficiency under high traffic loads.

**Quantum Mob, Software Developer | Remote (Toronto, CA)** Jan 2022 - July 2022

- Conducted React web application with Redux, MariaDB, and Redis to perform online redemption system.
- Collaborated with the Loblaw Digital eCommerce team to develop a Snowplow Analytics library for tracking customer web activities.

**Sumer Inc. , Co-Founder and Full Stack Developer | Toronto, CA** Oct 2019 - July 2022

- Evaluated Sumer Inc.'s technical design, created system flow diagrams, and identified optimal solution architecture.
- Managed and developed React Native/React and GraphQL backend solutions with AWS, delivering iOS and Android applications within an Agile timeline.
- Created GraphQL resolvers on the backend to efficiently fetch and return data matching frontend GraphQL queries.

## SKILLS

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Languages & Scripting	Java, JavaScript, TypeScript, Python, Node.js, PHP, C#, Bash
Database/Technology	MySQL, PostgreSQL, MongoDB, Redux, Apollo, Docker, Bash, LaTeX, Vim
Frontend	React, Next.js, AngularJS, Redux, Apollo Client, SSR/SSG, CMS Integration
Frameworks & Backend	FaseAPI, Spring Boot, REST APIs, GraphQL, Apache Airflow, BFF Pattern
Data & Storage	MySQL, PostgreSQL, MongoDB, Redis, BigQuery, Elasticsearch
DevOps & Cloud	GCP, AWS, GitLab CI, Docker, Kubernetes, NX, Terraform
AI System and development skills	RAG, Vector Databases, LLM Deployment, Prompt Engineering, LLM Orchestration

## Certificates

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Jr Penetration Tester

Canada 2025

TryHackMe -  
Completed

## PROJECTS

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**LiveDoc AI – Local Knowledge Interaction Platform** Loblaw Digital Toronto, CA

- Architected and built an end-to-end RAG-based knowledge platform using FastAPI and a local vector database, enabling real-time document retrieval and LLM-powered responses.

**FastPass for All – Event-Driven Customer Service** Loblaw Digital Toronto, CA

- Developed an event-driven service using Java 21, Spring Boot, and GCP Pub/Sub to manage customer access experiences. Resulted in a 130% increase in engagement within three months.

**PCH WEB** Toronto, CA

- Utilize NextJS SSR to reduce application run time and combine Contentful CMS and GraphQL query fetch to consume content data without developer involved.
- Using Redis to achieve Caching layout, reduce total API call with fetching data from CMS to speed up the application

## EDUCATION

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**UNIVERSITY OF TORONTO, BS in Statistic | Specialist of Data Mining and Machine Learning |**

Toronto, CA

April 2020