



## TAKULABS INNOVATION HIGHLIGHT



## TAKU Retail

### COMPANY OVERVIEW

TakuLabs is a retail point-of-sale (POS) solutions provider that has built an all-in-one cloud platform to handle inventory and transactions for mid-market retailers with multiple store locations. With over 17+ years in hands-on retail, wholesale and manufacturing experience, the founders of TakuLabs created TAKU Retail to offer a unified commerce platform that consolidates all sales, inventory, and customer data across all channels and physical locations.

**LOCATION:** TORONTO, ON

### TECHNOLOGY



### Data Centre and Cloud

**TAKU  
Retail**

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### OUT OF DATE CLOUD PLATFORMS IN RETAIL SECTOR

Retailers are currently struggling to compete in a market where their infrastructure can't keep up with high volume inventory and transaction movement in the cloud. This is especially true for retailers who haven't migrated from traditional legacy POS to modern cloud POS solutions. With multiple locations and transactions happening rapidly, retailers need a reliable system to track sales and manage inventory across all sales channels effectively under a single platform.

### MODERNIZING RETAIL OPERATIONS THROUGH TAKU RETAIL

To solve this problem, TakuLabs created TAKU Retail. The TAKU Retail platform is a cloud-native solution designed to leverage IoT-driven systems that are key to helping retailers manage real-time physical inventory in the long-term. Real-time stock visibility gives retailers and management the ability to make decisions for their locations and the business in general based on an accurate view of the company as a whole. Retailers can also use data to digitally target shoppers through smart inventory feeds that automatically surface in the search results of local shoppers.

### VALIDATING PLATFORM SCALABILITY

Utilizing CENG N's testbed, TakuLabs validated that the TAKU Retail platform can scale up to 10,000-15,000 Client API requests per second with no error messages returned. By testing in increments of 1,000, TakuLabs gained detailed understanding of the resource usage under different loads, which has helped them optimize for performance and cost. TakuLabs is now the 1st retail commerce platform in Canada to be optimized to handle transaction volumes of up to 10,000 transactions per second. This testing positions them to expand into new markets with the rollout of 5G network infrastructure in Canada and around the world.

**"As a result of the support received from the CENG N team, TAKU Retail is now optimized for Kubernetes and can be run from anywhere and scaled worldwide cost-effectively."**

**Karen Wong**

CEO, TakuLabs

