KRYNAX LIMITED

*Digital Excellence, Delivered*

Case Study

# Delivering Market Intelligence at Speed & Scale

A specialized SaaS platform providing select users and communities with automated, customizable insights across multiple digital marketplaces.

# The Challenge & Client Vision

## The Marketplace Imperative

In competitive, fast-moving digital marketplaces, the window to identify and act on high-value listings is often just seconds. Our client needed a robust solution to navigate this dynamic environment effectively.

## Client's Core Need

> *"Give us a tool that sees what others miss — and make it available where our people already work."*

## Key Requirements for the Solution:

- Provide high-frequency market insights.
- Automate the discovery of profitable listings.
- Integrate cleanly into existing user workflows.
- Function as a standalone tool with deep Discord integration, rather than being built inside Discord.

# Crafting the Solution

## Our Approach: Exceeding Expectations

We viewed this challenge as an opportunity to innovate beyond the immediate request. Instead of a typical alert application, we engineered a modular, enterprise-ready market intelligence system designed for rapid integration and scalability

**Core Features Developed:**

- A custom user dashboard for fine-tuning data reception and parameters.

- Near real-time deal notifications, pushed within seconds of market appearance.

- Scalable infrastructure built to support both individual power users and larger communities.

## Technologies & Development Insights

- **Technology Stack:** Built using React for the frontend and Node.js with Express on the backend. MongoDB was used for data storage, while Docker and PM2 supported deployment. Puppeteer enabled headless scraping, and Socket.io handled real-time interactions.

- **Development Hurdles:** API instability led to inconsistent data delivery. To solve this, we implemented a hybrid model combining API calls with Puppeteer-based web scraping, improving reliability and ensuring consistent system performance.

# Impact & Outcomes

## Performance Snapshot (First 30 Days Post-Deployment):

- **1,200+** unique high-value listings detected and shared.
- **Significant Increase** in client-side user productivity.
- **100% System Uptime** achieved via a robust, load-balanced deployment.

## Key Benefits Delivered:

- **Accelerated Insights:** Users gained access to critical market data faster than ever before.

- **Reliability & Scalability:** The enterprise-ready system ensures consistent performance and future growth potential.

- **Seamless Workflow Integration:** Insights were delivered directly into established user environments (Discord), maximizing adoption and utility.

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# What's Next for the Platform?

Krynax is committed to the continued evolution of this market intelligence tool. Active development includes:

- Expanding support to additional market platforms.
- Integrating enhanced analytics and detailed price history features.
- Introducing further customization options for alerts and data filtering.

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## About Krynax

Krynax engineers high-performance digital solutions, including advanced SaaS platforms, to provide critical market intelligence for select users and communities. We deliver a decisive competitive edge by transforming complex data into customized, actionable insights through innovative technology.