



TECH STACK DETAILS

we achieve

asymmetric results



# Granite Cliff Global Fund Corporation

## TRADING ADVANTAGES-TECH STACK DETAILS

(Technical Overview)

March 15 2026

Granite Cliff's proprietary software is built on pre-bounded risk architecture that defines loss limits ex-ante, enforcing them mechanically at the system level. This differentiates GCG from other trading platforms. Fast executions across highly liquid mega-cap trading flows provide material entry & exit advantages. Trading discipline is enforced structurally through software, not merely through policy or training. Combining a touch-based execution interface with real-time signal compression across dozens of highly liquid securities, significantly eliminates entire classes of human error, reduces transaction costs, and creates a durable process moat. The interface collapses chart interpretation, order routing, risk control and exit strategy into a unified visual decision surface, thereby materially reducing reaction time while preserving capital discipline. The entire platform is market-sector and market-direction agnostic, preserving **portfolio growth** as the focus.

### 1. Core Architecture

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These are not design features; they are hard-coded, system-level trading mechanics.

#### A. Pre-Bounded Risk Architecture

- Maximum dollar loss, position size and stop loss per trade are **defined, not chosen**.
- All trades are bracket trades, with a fixed scaffold of a Stop Loss, that **cannot be removed, only transitioned into (a) an equivalent Market Order, or (b) Trailing Stop with identical loss provisions**.

#### B. Constraint-Driven Execution

- Execution is constraint-driven rather than discretion-driven, eliminating override risk and emotional deviation.
- The *system* decides HOW a trade is to be executed before the *trader* decides WHETHER to execute it.
- Discretion exists only **within non-overrideable constraints**

#### C. Discipline Encoded in Architecture, not merely Policy

- Traders cannot "forget" a stop-loss
- Traders cannot bypass brackets

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Granite Cliff Global is a trading name of Granite Cliff Global Fund Corporation. (Cayman Exempted Company)



## 2. Risk & Discipline Enforcement

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Where most other platforms fail.

### A. Hard stop-loss caps

- Stop-loss % has a **Hard Ceiling**
- Dynamically adjusted dropdown menus are capped to meet predetermined ratios. No override mechanism exists.
- Once an order is live, core parameters are greyed out to prevent panic driven changes.

### B. Partial Fill Awareness + Exit Control

- Software tracks partial fills in real time
- With one button, the trader can cancel remaining buy orders, exit partially filled positions by initiating an immediate bracketed exit while preserving original stop-loss protection.
- Visualize exact realized profit or loss at selectable price levels

**Benefit:**

Reduces execution risk during fast markets and preserves downside protection at all times.

## 3. Platform Reliability & Security by Design

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Operating within a closed, security-first OS, that materially reduces external and internal attack vectors. Platform architecture mirrors the trading philosophy.

### A. Operational Stability Under Stress

- Operating inside a walled garden, with closed architecture
- Strong memory management
- Sandboxed execution with a controlled API surface
- No arbitrary background code execution
- Fewer software layers, fewer points of failure

**Benefit:**

The system does not fail *when markets are moving fast*.

### B. Intentional Non-Portability

- Optimized ergonomics provide reduced error and one-tap execution
- No browser or cross-platform abstraction risk

**Benefit:**

Improved Reliability, Speed and Stability

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## 4. Primary Functional Features

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The system is designed to limit downside exposure rather than optimize any single trade outcome.

### A. Global Max-Loss Engine

- Trader inputs a **maximum dollar loss per trade, never to exceed a defined limit.**
- Trader defines % of capital to deploy (e.g. 85%)
- On a per ticker-symbol basis, the software instantly adjusts trading criteria, and calculates:
  - Available margin
  - Stop Loss percentage
  - Position size
  - Share count

#### Benefit:

- No mental math or keystroke error
- No inconsistent or impulsive sizing
- Prevents over-leverage and standardizes exposure across trades

### B. Mandatory Bracket Trade Generation

- Every trade is a bracket trade by default
- Take-profit is optional
- Stop loss is **non-optional**

### C. Dual-Direction Symmetry (Long/Short Parity)

- Identical interface, with same mechanics and risk logic for:
  - Long trades (green)
  - Short trades (red)

#### Benefit:

- No cognitive Switching
- Strategy is market-direction agnostic



## 5. Execution & Cost Efficiency Advantages

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Often overlooked, **structurally material**.

### A. Market-like Execution using Limit Orders

- “Buy Limit” and “Sell Limit” mimic “Market Orders”
- Offset increments auto-adjust relative to market
- Captures speed and trade efficiency while **eliminating ECN fees**

**Benefit:**

Market-speed execution achieved through dynamically offset limit orders, materially reducing transaction costs. Over thousands of trades, this compounds massively.

### B. One-Button Execution

- Trade initiation → Sizing → Bracket → Stop Loss → **one-button execution**
- No keyboard. No mouse.
- Touch-based control surface

**Benefit:**

- Eliminates fat-finger errors
- Reduces reaction time without recklessness

### C. Visual Profit / Loss Mapping

- Profit and loss displayed **spatially**
- Real-time illuminated P&L tied to executable price levels
- No need to calculate mentally
- Stop Loss visually anchored and mechanically enforced

**Benefit:**

- Faster exit decisions
- Reduced cognitive load
- Fewer hesitation errors

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## 6. Signal Compression & Proprietary TradingView Indicators

Tangible Moat: Algorithmic signal compression that collapses dozens of live data streams into actionable alerts. Our four proprietary TradingView indicators (exclusive to our team), extend analysis beyond typical price-action and volume trends to distinguish **durable breakout continuation from transient price spikes**, each presenting distinct trade opportunities.

### A. Volatility + Volume Detection Engine

- Replaces 48 charts in Real Time
- 48 mega-cap stocks monitored simultaneously, with WebSocket streaming via API
- Algorithm flags:
  - Significant price movement
  - Volume-confirmed activity
- Visual + Audible alert
- Trader attention is scarce
- Software acts as a **filter**, not a display

#### Benefit:

Better decisions, with faster reaction and less fatigue.

### B. Proprietary Momentum & Breakthrough Indicators

These indicators evaluate:

- Velocity and acceleration of price movement
- Volume-Validated Momentum vs. Expected Intraday Norms
- Rate-of-Change differentials (Strength vs. Decay)
- Support/Resistance tests vs. Authentic Breakouts
- Time-of-day context, optimized around primary liquidity windows

#### Benefit:

Sharper trade selection, enabling faster recognition of statistically meaningful momentum from transient spikes.

## 7. Multi-Account Architecture

Parallel account architecture enabling tactical exposure management without contaminating primary execution; used selectively, not as a leverage or risk-amplification mechanism.

### A. Parallel Account Execution

- Two independent accounts trading simultaneously
- Used tactically (e.g. risk offset, DCA logic)

#### Benefit:

- Advanced risk unwinding
- Faster recovery from adverse moves
- Exposure partitioning

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## Disclosure

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