# 📈 StockXChain

## Overview

**StockXChain** is a next-generation platform for monitoring and trading tokenized U.S. stocks on-chain, built on the **Solana** blockchain. It integrates tokenized assets (like AAPLx, TSLAx, AMZNx) with advanced DeFi tools, bridging traditional market data with seamless on-chain trading.  
By combining TradingView, DexScreener, and Solana’s Jupiter aggregator, StockXChain empowers users to trade tokenized stocks with near Wall Street-grade insights — without the need for traditional brokerages.

## 🔥 Features

**Real-time Dual Market View**  
Compare traditional stock prices vs on-chain tokenized prices to easily identify premiums/discounts.

**One-Click On-Chain Trading**  
Execute trades directly via Jupiter aggregator using wallets like Phantom / Solflare. No KYC, no brokerage.

**Instant Arbitrage & Strategy Tools**  
Built-in premium/discount alerts and intelligent strategy prompts.

**Advanced Visualization & Analysis**  
Dynamic K-line charts, historical backtesting, volatility metrics, all in one dashboard.

**Future-Ready**  
Modular architecture for supporting bonds, ETFs, commodities, and multi-chain expansion.

## 🏗️ Tech Stack

**Blockchain:** Solana

**Data:** TradingView API (traditional prices), DexScreener (on-chain prices)

**Aggregator:** Jupiter

**Frontend:** React / Next.js (planned)

**Backend:** Node.js, integrating Solana JSON RPC & indexers

**Smart Contracts:** Solana Program Library (future expansion for LP staking etc.)