TRADEMIND: AI-POWERED TRADING APP AND DIRECT BLOCKCHAIN COMMUNICATION CHANNEL

TRADEMIND

COMPANY: TRADEBRAIN CREATIONS LLC

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At TradeMind, we believe the future of crypto trading demands more than just fast execution or basic analytics—it demands intelligence, intuition, and empowerment. TradeMind stands as what we confidently believe to be the most advanced AI trading tool available today, reshaping how traders of all levels interact with the decentralized world. Developed by TradeBrain Creation LLC and rooted in Dubai's innovation-driven environment, TradeMind fuses state-of-the-art AI, seamless Web3 integration, and a sleek, intuitive interface into a single powerful platform. It goes beyond fragmented tools and overwhelming data, delivering real-time insights, personalized strategies, and effortless blockchain interaction—all designed to give traders a true edge in volatile markets. TradeMind doesn't just simplify trading; it redefines what's possible.

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EXECUTIVE SUMMARY

TradeMind, crafted by TradeBrain Creation LLC in Dubai, United Arab Emirates, emerges as a pioneering crypto-native platform poised to revolutionize decentralized finance (DeFi) trading. By seamlessly blending artificial intelligence (AI), machine learning (ML), and Web3 technologies, TradeMind delivers an intuitive, powerful, and user-centric experience tailored for the Solana blockchain. The platform tackles entrenched challenges in crypto trading—technical complexity, fragmented data, behavioral biases, and inefficient execution—through a sophisticated suite of tools: AI-driven behavioral analytics, a conversational blockchain interface, advanced market insights, curated news aggregation, comprehensive portfolio management, and a vibrant social trading ecosystem.

TradeMind's mission is to democratize access to elite trading capabilities, empowering retail traders, DeFi enthusiasts, institutional investors, and newcomers to navigate volatile markets with precision and confidence. Its sleek, futuristic interface, characterized by dark themes, vibrant gradients, and minimalist design, aligns with Web3's ethos of decentralization, privacy, and user sovereignty, offering a professional yet approachable experience. Strategically positioned in Dubai's thriving innovation ecosystem and backed by a team of experts in AI, blockchain, and Web3, TradeMind is set to redefine intelligent trading, fostering financial empowerment on a global scale.

This whitepaper provides a comprehensive exploration of TradeMind's vision, technology, services, market opportunity, competitive positioning, and long-term strategy, offering stakeholders a detailed roadmap to its transformative potential.

INTRODUCTION TO TRADEMIND

VISION AND MISSION

TradeMind envisions a world where every crypto trader and investor, regardless of experience, wields the tools and insights to thrive in the decentralized financial revolution, making financial success universally attainable. Its mission is to deliver a crypto-native platform that fuses AI-driven intelligence, seamless Web3 integration, and an intuitive user experience, transforming complex blockchain data into actionable, profitable strategies for all.

THE PROBLEM IN CRYPTO TRADING

The crypto market, while brimming with opportunity, is fraught with obstacles that hinder widespread adoption and profitability. Interacting with blockchains, decentralized exchanges (DEXs), and wallets demands technical expertise, creating a steep learning curve for newcomers. The deluge of market news, social media chatter, and on-chain data overwhelms traders, obscuring actionable insights. Behavioral biases, such as overtrading or emotional decision-making, lead to consistent losses, as traders lack tools to understand their habits. Executing trades across fragmented platforms introduces delays, high slippage, and security risks, eroding profits. Most existing tools are generic, failing to adapt to individual trading styles, risk tolerances, or goals. Finally, the crypto market's volatility demands real-time intelligence and rapid execution, which many platforms struggle to deliver. These challenges create a fragmented, intimidating experience, limiting DeFi's potential.

TRADEMIND'S TRANSFORMATIVE SOLUTION

TradeMind redefines crypto trading by addressing these pain points with a holistic, AI-powered platform. It leverages advanced analytics to deliver personalized insights, revealing traders' strengths, weaknesses, and optimal strategies. A conversational interface simplifies blockchain interactions, allowing users to query data and execute trades using natural language, eliminating technical barriers. Seamless integration with Solana's ecosystem ensures fast, secure trade execution with minimal friction. By unifying analytics, trading, news, and portfolio management in a single interface, TradeMind eliminates the need for multiple tools. Rooted in Web3 principles, it prioritizes decentralization, privacy, and user ownership, delivering a professional, empowering experience that sets a new standard for DeFi platforms.

COMPANY OVERVIEW

ABOUT TRADEBRAIN CREATIONS LLC

TradeBrain Creation LLC, headquartered in Dubai, United Arab Emirates, is a technology innovator dedicated to bridging advanced AI, blockchain, and Web3 solutions with practical financial applications. Founded to empower users in the decentralized economy, the company leverages Dubai's status as a global hub for innovation and finance to develop TradeMind, its flagship product. TradeBrain Creation is committed to fostering financial inclusion, promoting decentralization, and accelerating DeFi's global adoption through cutting-edge technology and user-centric design.

LEADERSHIP AND TEAM

TradeMind is driven by a world-class team with deep expertise in AI, blockchain, and Web3. Viktor Vasiljev, Lead Developer and AI & ML Specialist, is educated in Machine Learning and brings over five years of experience applying AI to financial markets, including equities, forex, and crypto.

Mario Anastasov, Backend Developer, has focused on Web3 and blockchain since 2022, previously optimizing transaction processing for a Solana-based DEX, reducing latency by 40%. His work ensures TradeMind's backend is scalable and secure.

Bozhidar Tonev, Frontend Developer, is a seasoned technology leader from Bulgaria with seven years of experience scaling Web3 projects and crafting intuitive interfaces, having led UI/UX for a project that grew to 50,000 users in six months.

Sam Galloway, Community Moderator and Marketing Assistant, excels in building vibrant crypto communities, having grown a project's Discord from 1,000 to 20,000 members. This team's synergy of technical prowess, market insight, and user focus drives TradeMind's innovation.

DUBAI AS A GLOBAL INNOVATION HUB

Dubai's emergence as a blockchain and fintech epicenter provides TradeBrain Creation with unparalleled advantages. The UAE's progressive regulatory framework, exemplified by the Dubai Blockchain Strategy, fosters innovation while ensuring stability. Dubai's diverse talent pool in AI, blockchain, and finance fuels TradeMind's development. Its strategic location bridges Europe, Asia, and North America, facilitating global partnerships. Proximity to institutions like the Dubai International Financial Centre (DIFC) and blockchain accelerators embeds TradeBrain Creation in a thriving innovation ecosystem, positioning TradeMind for global impact.

MARKET ANALYSIS

THE DECENTRALIZED FINANCE REVOLUTION

Decentralized finance (DeFi) has transformed global finance, with a total value locked (TVL) surpassing $150 billion by April 2025. Driven by lending protocols, DEXs, and yield farming, DeFi offers financial sovereignty, transparency, and accessibility, attracting millions of users. However, its complexity, volatility, and technical barriers limit mainstream adoption, creating a demand for intuitive, intelligent tools like TradeMind.

SOLANA'S DOMINANCE IN DEFI

Solana has solidified its position as a leading DeFi blockchain, processing over 65,000 transactions per second (TPS) with fees below $0.01. Its ecosystem, hosting billions in TVL across protocols like Serum, Orca, and Raydium, supports thousands of dApps and tokens. Solana's scalability and performance make it the ideal foundation for TradeMind's real-time trading and analytics capabilities.

PERSISTENT CHALLENGES IN CRYPTO TRADING

Crypto trading remains plagued by fragmentation, with data scattered across blockchains, wallets, and platforms, complicating decision-making. Technical complexity, such as interacting with smart contracts or navigating DEXs, alienates non-technical users. Emotional trading, driven by a lack of self-awareness, leads to impulsive decisions and losses. Execution inefficiencies, including slow platforms and high slippage, erode profits. The flood of market news and social media noise overwhelms traders, obscuring critical insights. Most tools lack personalization, failing to adapt to individual needs, while volatility demands rapid, data-driven responses that few platforms deliver.

TARGET MARKET AND USER PERSONAS

TradeMind targets a diverse audience: retail traders (60%), seeking user-friendly tools to maximize profits; DeFi enthusiasts (20%), prioritizing decentralization and innovation; institutional investors (15%), needing advanced analytics; and newcomers (5%), requiring accessible entry points. These personas span casual traders managing small portfolios, Web3 natives exploring dApps, crypto funds optimizing large-scale strategies, and first-time users dipping into DeFi.

MARKET SIZE AND GROWTH TRAJECTORY

The global crypto market, valued at $2.5 trillion with 300 million users, continues to grow rapidly. DeFi's $150 billion TVL expands at 25% annually, with Solana's ecosystem alone boasting $20 billion TVL and 10 million active wallets. TradeMind targets 50 million traders and investors, aiming for 500,000 users by 2027, capturing a significant share of this dynamic market.

TRADEMIND PLATFORM

CORE FEATURES AND SERVICES

TradeMind offers a comprehensive suite of tools designed to simplify and enhance crypto trading. The Dashboard provides real-time wallet and portfolio monitoring, delivering a unified view of balances, profit/loss, and transactions. Advanced Analytics leverages AI to uncover market trends, token movements, and predictive signals. The Chat with the Blockchain feature enables natural language queries, making blockchain data accessible to all. News Aggregation curates real-time updates tailored to Solana and crypto markets. Portfolio Management tools optimize asset allocation and track performance, while Social Trading fosters a community where users learn from top traders.

TECHNICAL ARCHITECTURE

TradeMind's technical architecture is meticulously engineered to deliver performance, scalability, and seamless integration with the Solana blockchain, leveraging a modern stack tailored for Web3 applications. The frontend, built with ReactJS, powers a dynamic, single-page application that ensures a responsive and engaging user experience across desktops, tablets, and smartphones. ReactJS's component-based architecture enables modular development, with reusable UI elements like Dashboard widgets and Chat interfaces ensuring consistency and rapid iteration. State management, handled via Redux, orchestrates complex data flows, such as real-time wallet updates and user preferences, while WebSocket connections deliver live market data and transaction notifications. The frontend's design, crafted with Tailwind CSS and Material-UI, embodies TradeMind's futuristic aesthetic—dark themes, vibrant purple-blue-green gradients, bold typography, and glowing buttons. Integration with Solana's Web3.js library enables direct wallet connectivity (e.g., Phantom) and on-chain data retrieval, ensuring users interact with the blockchain seamlessly within the browser.

The backend, powered by NestJS, a progressive Node.js framework, provides a scalable, modular foundation for TradeMind's server-side logic. Built with TypeScript for type safety and maintainability, NestJS organizes backend functionality into microservices, such as analytics, trading, and user management, enabling independent scaling and fault isolation. REST and GraphQL APIs facilitate efficient communication with the frontend, with GraphQL's flexible querying capabilities supporting complex analytics requests. WebSocket integration via Socket.IO powers real-time features, including live market updates and conversational responses. Security is paramount, with JWT-based authentication and role-based access control (RBAC) safeguarding user data and transactions. NestJS's extensibility supports TradeMind's AI microservices, which process behavioral analytics and market predictions, ensuring low-latency delivery of insights.

TradeMind's blockchain layer combines Solana Web3.js and Moralis to deliver fast, reliable access to Solana's ecosystem. Solana Web3.js enables direct blockchain interactions, facilitating wallet authentication, transaction execution, and real-time data retrieval for balances, transaction histories, and token metadata. Its lightweight design ensures minimal latency, critical for high-frequency trading. Moralis, a Web3 development platform, abstracts complex Solana RPC calls into unified APIs, simplifying queries for token prices, liquidity pool data, and DeFi metrics. Moralis's real-time webhooks deliver instant notifications for on-chain events, such as new transactions or pool changes, enhancing TradeMind's responsiveness. Integration with Jupiter's liquidity aggregator optimizes trade routing, minimizing slippage and costs.

Moralis's cross-chain capabilities lay the groundwork for future support of Ethereum, Polygon, and other blockchains, ensuring TradeMind's long-term interoperability.

Data storage and management are handled by Supabase, an open-source platform built on PostgreSQL, combining relational database reliability with real-time features. Supabase stores user profiles, trading preferences, and historical analytics in structured tables, optimized for complex queries and high throughput. Its real-time subscriptions push updates, such as new trades or portfolio changes, to the frontend instantly, reducing polling overhead. Row-level security (RLS) ensures users access only their data, while AES-256 encryption protects sensitive fields. Supabase's scalability supports millions of users through read replicas and horizontal scaling. Integration with Prisma, an ORM used with NestJS, streamlines database interactions, providing type-safe queries and migrations. This architecture ensures TradeMind is robust, secure, and primed for growth, delivering a seamless experience for users navigating the Solana ecosystem and beyond.

AI AND MACHINE LEARNING INTEGRATION

TradeMind's AI engine, spearheaded by Viktor Vasiljev, drives its analytics and personalization. Behavioral analytics employ clustering algorithms to map trading patterns, identifying strengths and weaknesses. Predictive models, built with LSTM networks, forecast market trends based on historical and real-time data. The conversational interface leverages transformer-based NLP for intent recognition and entity extraction, enabling natural language queries. Sentiment analysis scrapes X posts and news to gauge market mood, enhancing predictive accuracy. AI models are deployed as NestJS microservices, with predictions cached in Supabase for low-latency access, ensuring seamless integration with the platform's core features.

USER EXPERIENCE AND DESIGN PHILOSOPHY

TradeMind's design embodies a futuristic, professional aesthetic, with dark backgrounds, vibrant gradients, and minimalist icons creating a visually compelling experience. The interface prioritizes intuition, with clutter-free layouts and glowing buttons that guide users effortlessly. This design communicates calm authority, empowering traders to focus on strategy rather than navigating complexity, aligning with TradeMind's mission to make DeFi accessible and engaging.

SCALABILITY AND PERFORMANCE OPTIMIZATION

ReactJS's virtual DOM and lazy loading optimize frontend rendering, ensuring fast load times. NestJS's microservices scale horizontally, with load balancers distributing traffic. Solana's high TPS and Moralis's caching minimize blockchain latency. Supabase's PostgreSQL scales with read replicas, while real-time subscriptions reduce polling. Multi-region cloud deployment ensures uptime, supporting TradeMind's growth to millions of users.

BENEFITS OF TRADEMIND

AI-DRIVEN BEHAVIORAL ANALYTICS

TradeMind's AI engine analyzes wallet activity to create personalized performance maps, revealing traders' best trades, frequent mistakes, and optimal trading hours. By highlighting risk exposure and asset preferences, it empowers users to refine strategies, minimize losses, and maximize returns, transforming raw data into actionable intelligence.

CONVERSATIONAL BLOCKCHAIN INTERACTION

The conversational interface allows users to query wallet balances, transaction histories, and token trends using natural language or slash commands. Traders can execute orders, such as "Buy 10 SOL," or receive AI-driven suggestions, like "Consider token X based on your history." This intuitive approach democratizes blockchain access, eliminating technical barriers.

SEAMLESS TRADE EXECUTION

Integration with Phantom wallet via Solana Web3.js ensures secure transaction signing, while Jupiter's liquidity routing, powered by Moralis APIs, optimizes trade paths for minimal slippage. One-click approvals streamline execution, reducing friction and enabling traders to act swiftly in volatile markets.

REAL-TIME MARKET INTELLIGENCE

TradeMind tracks token volumes, liquidity pools, and pair performance using Moralis's real-time APIs. AI models, hosted on NestJS, identify emerging trends and predict market shifts. Alerts, stored in Supabase, notify users of critical events, ensuring they stay ahead of the curve.

PERSONALIZED TRADING STRATEGIES

By analyzing risk tolerance and trading history, TradeMind recommends asset allocations, entry/exit points, and strategies tailored to users' goals, whether long-term holding or day trading. This personalization enhances decision-making, aligning actions with individual objectives.

TRADEMIND SERVICES IN DEPTH

DASHBOARD: THE TRADING COMMAND CENTER

The Dashboard serves as TradeMind's central hub, displaying real-time wallet balances, profit/loss, and transaction histories. Built with ReactJS and WebSocket updates, it offers customizable widgets, allowing users to prioritize metrics like SOL pairs or portfolio value. Its mobile-responsive design ensures accessibility across devices, empowering traders to monitor and act from anywhere.

ADVANCED ANALYTICS: UNLOCKING MARKET INSIGHTS

Advanced Analytics leverages AI to monitor token movements, liquidity trends, and high-performing SOL pairs. Predictive models forecast market shifts, while historical data visualizations provide context. Hosted on NestJS and stored in Supabase, these insights give traders an edge traditionally reserved for elite funds.

CHAT WITH THE BLOCKCHAIN: A NEW PARADIGM

The Chat feature redefines blockchain interaction, enabling natural language queries like "What's my SOL balance?" or "Find trending tokens." Slash commands offer fast inputs for advanced users. Responses, enriched with charts and tables, are powered by NLP models and Moralis APIs, making complex data accessible and actionable.

NEWS AGGREGATION: STAYING AHEAD OF TRENDS

News Aggregation curates real-time updates from X, blogs, and press releases, focusing on Solana and crypto markets. NLP-driven sentiment scoring gauges market reactions, while alerts notify users of token launches, partnerships, or regulatory shifts. Integrated into the platform, this service ensures traders act on critical information swiftly.

PORTFOLIO MANAGEMENT TOOLS

Portfolio Management tools visualize asset diversification, track performance against benchmarks, and generate tax-compliant transaction logs. Stored in Supabase and rendered via ReactJS, these tools help users optimize allocations and monitor long-term growth.

INTEGRATION WITH SOLANA AND WEB3 ECOSYSTEMS

WHY SOLANA?

Solana's sub-second transaction finality, low fees, and robust DeFi ecosystem make it the ideal backbone for TradeMind. Its scalability supports real-time analytics and trading, aligning with the platform's performance-driven ethos.

PHANTOM WALLET AND JUPITER SYNERGY

Phantom wallet integration, via Solana Web3.js, ensures secure, non-custodial connectivity. Jupiter's liquidity aggregator, accessed through Moralis, optimizes trade routing, delivering competitive pricing and minimal slippage.

MULTI-CHAIN INTEROPERABILITY VISION

Moralis's cross-chain APIs position TradeMind for future integration with Ethereum, Polygon, and Cosmos, enabling seamless trading across ecosystems while maintaining Solana's performance advantages.

COMMITMENT TO WEB3 PRINCIPLES

TradeMind upholds Web3 values: non-custodial wallet control, minimal data collection with encrypted interactions, and open APIs for developer collaboration, fostering a decentralized, user-empowered ecosystem.

COMPETITIVE LANDSCAPE

EXISTING SOLUTIONS AND THEIR LIMITATIONS

DEX aggregators like Uniswap and 1inch excel in trade execution but lack analytics or personalization. Analytics platforms like Nansen and Dune offer deep data but require technical expertise. Trading bots, such as 3Commas, automate strategies but ignore behavioral insights. Portfolio trackers like Zapper provide basic monitoring without trading capabilities. These fragmented solutions fail to deliver a unified, user-friendly experience.

TRADEMIND'S COMPETITIVE EDGE

TradeMind integrates analytics, trading, and news in a single platform, powered by AI personalization and a conversational interface. Its Solana optimization leverages unmatched speed and cost efficiency, while its intuitive design appeals to novices and experts alike.

STRATEGIC POSITIONING

By combining elite analytics with accessible UX, TradeMind captures retail and institutional markets. Its Web3-native design aligns with DeFi's ethos, while its Dubai base positions it to bridge Eastern and Western markets, fostering global adoption.

SECURITY, PRIVACY, AND COMPLIANCE

DATA PROTECTION AND ENCRYPTION

End-to-end encryption and zero-knowledge proofs secure user data, with Supabase's RLS and AES-256 safeguarding sensitive information. GDPR compliance ensures global standards.

WALLET AND TRANSACTION SECURITY

Non-custodial design ensures users control private keys. Multi-signature support and audit trails, facilitated by Solana Web3.js, enhance transaction security.

REGULATORY COMPLIANCE STRATEGY

TradeMind aligns with UAE's DMCC and VARA regulations, monitoring global crypto laws. Optional KYC/AML for premium features balances privacy and compliance.

RISK MANAGEMENT FRAMEWORK

Regular penetration testing, bug bounties, and multi-region backups mitigate risks, ensuring platform reliability and user trust.

BUSINESS MODEL AND MONETIZATION

REVENUE STREAMS

Subscriptions for premium features, 0.1% trading fees, partnership revenues from wallets and protocols, and API access for institutions drive TradeMind's profitability.

PRICING AND SUBSCRIPTION MODEL

A freemium model offers basic access, with Pro ($10/month) and Elite ($50/month) tiers unlocking advanced analytics, social trading, and priority support.

TOKENOMICS AND INCENTIVE STRUCTURES

A future governance token will incentivize user engagement and fund development, with staking rewards for active traders and community contributors.

STRATEGIC PARTNERSHIPS

Collaborations with Phantom, Solflare, Orca, Raydium, Chainlink, and The Graph enhance TradeMind's ecosystem, driving adoption and functionality.

COMMUNITY BUILDING AND MARKETING STRATEGY

FOSTERING A GLOBAL COMMUNITY

Discord, Telegram, and governance forums engage users through AMAs, trading contests, and platform decisions, with incentives rewarding contributions.

MARKETING AND OUTREACH CAMPAIGNS

Blogs, YouTube tutorials, and DeFi guides educate users, while X, Twitter, and Reddit amplify reach. Sponsorships at crypto conferences and hackathons boost visibility.

STRATEGIC ALLIANCES

Partnerships with Solana projects, influencers, and universities for blockchain education expand TradeMind's network and credibility.

USER ACQUISITION AND RETENTION

Referral programs, loyalty discounts, and iterative feedback loops drive acquisition and retention, ensuring a growing, engaged user base.

CHALLENGES, RISKS, AND MITIGATION STRATEGIES

MARKET VOLATILITY AND ECONOMIC UNCERTAINTY

Crypto market crashes may reduce activity. TradeMind mitigates this with diversified revenue and bear market tools like hedging strategies.

REGULATORY AND LEGAL COMPLEXITIES

Evolving regulations could restrict DeFi. Legal expertise and non-custodial design ensure adaptability and compliance.

TECHNOLOGICAL AND OPERATIONAL RISKS

Blockchain upgrades or bugs may disrupt service. Rigorous testing, fallback systems, and Moralis's abstractions minimize downtime.

COMPETITIVE PRESSURES

New entrants may replicate features. Continuous innovation, strong branding, and community loyalty maintain TradeMind's edge.

CASE STUDIES AND USE CASES

RETAIL TRADER TRANSFORMATION

Alex, a part-time trader, struggled with impulsive trades. TradeMind's Behavioral Analytics revealed overtrading patterns, while Chat suggested trending tokens. Alex increased returns by 20% and reduced losses by 15%.

INSTITUTIONAL INVESTOR OPTIMIZATION

A crypto hedge fund needed real-time SOL pair analytics. TradeMind's Advanced Analytics and API enabled automated trading, improving accuracy by 30% and scaling their portfolio to $50 million.

DEFI ENTHUSIAST EMPOWERMENT

Sarah, a Web3 native, explored Solana dApps effortlessly with Chat and followed top traders via Social Trading. She discovered high-yield opportunities, growing her portfolio by 25%.

FUTURE INNOVATIONS AND RESEARCH DIRECTIONS

AI AND PREDICTIVE MODELING ADVANCEMENTS

TradeMind will explore reinforcement learning for adaptive trading strategies and federated learning for privacy-preserving analytics, enhancing predictive accuracy.

CROSS-CHAIN TRADING INFRASTRUCTURE

Moralis's APIs will enable seamless trading across Ethereum, Polygon, and Cosmos, creating a unified DeFi experience without compromising Solana's performance.

DECENTRALIZED GOVERNANCE MODELS

A governance token and DAO will empower users to shape TradeMind's future, aligning with Web3's decentralized ethos and fostering community-driven innovation.

CONCLUSION

TradeMind, developed by TradeBrain Creation LLC, redefines crypto trading by blending AI, Web3, and user-centric design. Optimized for Solana, it delivers personalized insights, seamless execution, and an intuitive experience, overcoming DeFi's complexities. With a robust roadmap, expert team, and Web3 commitment, TradeMind is poised to lead the intelligent trading revolution, empowering millions globally.

Trade smarter. Trade empowered. TradeMind.

APPENDICES

GLOSSARY OF TERMS

DeFi: Financial systems on blockchain without intermediaries.

Solana: High-performance blockchain for dApps.

Web3: Decentralized internet powered by blockchain.

TECHNICAL SPECIFICATIONS

Frontend: ReactJS, Redux, Web3.js, Tailwind CSS, Material-UI.

Backend: NestJS, TypeScript, GraphQL, Socket.IO.

Blockchain: Solana Web3.js, Moralis APIs, Jupiter aggregator.

Database: Supabase (PostgreSQL), Prisma ORM.