

Shane Moore

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Summary

Full-Stack Developer with expertise in fintech and algorithmic trading systems. Proficient in building advanced trading bots, real-time data pipelines, and financial analysis tools using FastAPI, Python, and JavaScript. Experienced in integrating financial APIs, managing SQL databases, and leveraging AI-powered sentiment analysis to improve trading outcomes.

Work Experience

Dapper Artisan Company | *Full-Stack Developer*

Jan 2024 - Present

- Developed React-based web applications with AI features, enhancing user engagement and satisfaction.
- Managed and optimized SQL databases for seamless integration with trading applications, reducing data processing time by 20%.
- Designed and managed API integrations for real-time trading data exchange, enhancing trading application response efficiency by 15%.
- Built and maintained testing environments to ensure robust integration between front-end and back-end codebases, leading to a 25% reduction in deployment time for full-stack applications.
- Collaborated with cross-functional teams to integrate AI-driven features, using APIs and machine learning models to deliver responsive, intelligent web applications, improving user engagement by 15%
- Indoor Positioning / Mobile Systems Initiative Implemented BLE/device-sensor positioning, built cross-platform mobile architecture, and deployed Firebase real-time event pipelines.
- Reference available upon request

Dr. Shield | *Full Stack Developer*

Feb 2025 - May 2025

- Built an e-commerce platform for organic healthcare products, enhancing user experience and increasing sales
- Developed cross-platform apps using Flutter, improving accessibility and user engagement across devices
- Developed AI models for customer support and coupon generation, streamlining operations and enhancing customer satisfaction
- Created backend services in Python with SQLAlchemy, ensuring efficient data management and seamless integration with front-end applications

CipherLux | *Full-Stack Developer*

Jan 2025 - Sep 2025

- Built AI-driven brokerage infrastructure using Flask and API integration, enhancing trading efficiency
- Utilized TypeScript, C++, Python, and PostgreSQL to streamline data processing and improve system performance
- Developed predictive models and low-latency trading systems, optimizing trade execution speed
- Integrated technical analysis and machine learning for backtesting, improving risk management strategies

Education

Mansfield High School

Jan 2015 - Jun 2018

Mansfield, TX

Skills

- HTML5, CSS, Python, JavaScript, FastAPI, API integration, Pytorch, NLM's, GenAI, RESTFUL API, FAST API, MongoDB, React, Git, Generative AI, Linux, Windows, Flask, Docker, Natural language processing, Application, Development, User Interface (UI)-, Version Control, XML, Java, SQL, C#, C++, Technical analysis, Quantitative Analysis, Backtesting, Risk Management, Prompt Engineering, JSX, Node.js, PostgreSQL, Full Stack Development, SQL Server, Rest APIs, ChatGPT, PyTorch, Transformers, Deep Learning, Backend Development, UX Design, Financial Engineering

Certifications

- Tech Founder Pro: Full Stack Development
- Columbia University : Financial Engineering

Projects

AlphaSentiment

Jan 2024 - Present

- Developed Quant Trades, an advanced algorithmic trading system using FastAPI for trading logic and real-time trade execution, incorporating FinBERT for sentiment analysis and pipeline from transformers for enhanced decision-making.
- Integrated PostgreSQL to store daily trading data for analysis and model retraining, enabling dynamic improvements to strategy accuracy over time.
- Implemented real-time data streaming with Websockets, optimizing market data processing and improving trade execution efficiency by 20%.
- Optimized trading strategy performance with advanced backtesting and multi-parameter optimization, achieving a 25% improvement in Sharpe ratio and reduced maximum drawdowns.
- Designed a responsive and interactive UI with HTML, CSS, and JavaScript, streamlining user interaction and providing real-time updates on strategy performance.

- Added advanced technical analysis indicators like EMA, MACD, and Bollinger Bands, dynamically integrated with the system for precise trade setups.

SofBld | www.sofbld.com | *Custom Software Consulting*

Feb 2026 - Present

- Built the entire platform from scratch using React, including animated multi-step intake forms, and tiered pricing architecture.
- Integrated Stripe for payment processing and checkout flows, with webhook-driven billing logic
- Deployed Plausible for privacy-first analytics and Dub for link attribution and referral funnel tracking
- Configured Jira and Trello project delivery pipelines supporting milestone-driven sprints and client-facing progress visibility
- Implemented AI workflow enhancements including automated lead qualification, LLM-powered chatbots, and AI-integrated internal tooling
- Engineered quantitative fintech modules: Pine Script strategy suites with Kalman filtering, PID-based signal processing, and algorithmic backtesting frameworks
- Designed the full service architecture across five technical domains: web apps, mobile (React Native/Flutter), AI automation, internal tooling, and fintech/quant engineering
- Reference available upon request

Market Beacon

Oct 2024 - Dec 2024

- Developed a Discord bot serving over 10,000 users, delivering timely financial insights through RSS feeds and advanced web scraping.
- Integrated data from top-tier financial sources such as Bloomberg, Reuters, Investopedia, Barchart, Wall Street on Parade, Yahoo Finance, Wall Street Journal, Business Wire, and Barrons.
- Enhanced financial analysis with NLP techniques using FinBERT and BERT models for sentiment analysis.
- Built robust news aggregation pipelines leveraging Python, APIs, and scraping frameworks to ensure accuracy and reliability.
- Provided real-time market updates and insights, increasing user engagement and retention.

TopStepXAlgo | *QuantTradez LLC*

Aug 2025 - Nov 2025

- Built a multi-phase quantitative research pipeline for CME futures (ES, NQ, YM) featuring Numba-accelerated grid search with permutation significance testing and Boruta feature selection to eliminate overfitted parameter sets.
- Implemented a Bayesian hyperparameter optimization framework with Purged K-Fold cross-validation, embargo periods, and Deflated Sharpe Ratio validation following institutional-grade anti-overfit methodology.
- Engineered microstructure-aware signal generation using volume bar construction, CUSUM event detection, and triple barrier labeling for adaptive trade entry and exit logic.
- Developed regime-detection gating with Hidden Markov Models and entropy-based filters to suppress signals during adverse or low-conviction market environments.
- Designed dynamic position sizing using Kelly criterion with hard risk caps, scaling allocation based on estimated edge, volatility, and real-time microstructure conditions.
- Built end-to-end backtesting infrastructure in Jupyter with 60/40 in-sample/out-of-sample walk-forward splits, Monte Carlo stress testing, and comprehensive performance metric export across multiple futures contracts.
- Achieved a Sharpe ratio greater than 2 with max drawdown under 12% on final holdout data, validated through permutation significance testing and Deflated Sharpe Ratio to confirm edge is statistically robust and not a product of overfitting or multiple testing bias.

Genetic Algorithms Trading Engine

Mar 2026 - Apr 2026

- Built a Python genetic-algorithm trading engine (3-objective NSGA-II with Deb constraint-domination) that optimizes CME micro-futures strategies on 5m bars across 6 instruments, jointly maximizing risk-adjusted return and profit-consistency while minimizing trailing drawdown under live prop-firm risk limits.
- Implemented and unit-tested quantitative performance metrics (Sortino, Ulcer Index, Sterling ratio, consistency ratio) and a walk-forward analysis framework (anchored train / rolling out-of-sample with embargo) to validate strategy robustness and prevent overfitting.
- Engineered dollar-normalized, volatility-targeted position sizing and a hard-constraint pipeline (daily loss limit, trailing drawdown, no overnight holds) over 24 months of 1-minute Databento data, gating non-deployable strategies to mirror real prop-evaluation pass/fail rules.