

# myel shaddah key

michael mckeithen jr.

charlotte, nc

myelshaddahkey@gmail.com

linkedin.com/in/michael-mckeithen-jr-79b182161

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## summary

R&D-focused creative technologist building AI systems, autonomous trading engines, and financial tools with LLMs. Creator of **S.A.F.E. (Secure Autonomous Financial Engine)**, a patent-pending autonomous AI portfolio manager with multi-agent architecture validated on extensive historical market data with verified audit integrity. I use no-code/low-code tools plus emerging coding skills to prototype working products quickly: designing behavior specs, wiring APIs, and iterating on UX until the system feels explainable and trustworthy to real users.

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## core skills & focus

- design thinking & rapid prototyping for llm-driven tools
- ai agent behavior, personality mapping, and long-term memory design
- multi-agent orchestration & autonomous decision-making systems
- backtesting methodology & system validation for AI trading systems
- concept-to-prototype strategy for no-code/low-code stacks

- system architecture for single-user and small-team ai assistants
- algorithmic trading systems, portfolio management, and risk analysis
- client-style communication & explanation of complex systems

## tools & platforms

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chatgpt / openai api · ollama · claude sonnet · python · visual studio code · rest apis · json  
· yahoo finance · coinbase api · alpaca markets · google drive · no-code/low-code  
builders

## selected projects

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### a. s.a.f.e. — secure autonomous financial engine

2025 – present

Autonomous AI portfolio manager with patent-pending multi-agent architecture. Manages multi-asset portfolios (crypto, equities, forex, commodities) with verified audit integrity and validated performance on historical data.

- Designed patent-pending AI architecture for autonomous portfolio management across cryptocurrency, equities, forex, and commodities markets
- Developed rigorous validation methodology preventing data leakage during backtesting and ensuring complete audit integrity across all decisions
- Built learning system that evolves trading strategies based on market performance while maintaining comprehensive decision audit trails
- Implemented adaptive risk management system with automated safety controls, real-time monitoring, and multi-layer defense protocols
- Integrated live market data across multiple exchanges and data providers with automatic failover handling and connection resilience

- Currently validating full-system performance through extended live observation with production-grade monitoring and recovery mechanisms

## **b. dual-mind framework — multi-persona chatgpt experiment** 2025 – present

experimental prompt engineering approach for simulating multiple distinct ai personalities within a single chatgpt conversation, each providing different perspectives and reasoning on the same question.

- developed a prompt structure enabling two ai personas with complementary roles: one exploratory and creative, the other analytical and constraint-focused.
- created protocols where each "mind" announces itself, presents independent reasoning, and highlights disagreements rather than converging to a single answer.
- applied this multi-perspective approach to creative projects, financial system design, and decision-making workflows requiring balanced viewpoints.
- demonstrated that single-session multi-agent reasoning is achievable through careful prompt engineering without requiring external frameworks.

## **education**

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### **mfa, music composition — 2022**

university of north carolina school of the arts

### **ba, music composition — 2019**

queens university of charlotte

### **undergraduate studies — 2014–2016**

gardner-webb university (transferred)