myel shaddah key

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summary

R&D-focused creative technologist building AI systems, autonomous trading engines, interactive narratives, and financial dashboards with LLMs. Creator of S.A.F.E. (Secure Autonomous Financial Engine), an autonomous AI portfolio manager prototype with patent-pending dual-brain architecture tested across 66,000+ decisions on blind historical data (2020-2024). 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.

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
- temporal isolation protocols & integrity verification for ai 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
- narrative design for interactive, ai-powered story experiences
- client-style communication & explanation of complex systems

tools & platforms

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

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

2025 – present

autonomous ai portfolio manager prototype with patent-pending dual-brain architecture. designed to manage multi-asset portfolios (crypto, equities, forex, commodities) while maintaining complete audit integrity and temporal isolation.

- designed patent-pending dual-brain architecture with strategic oversight layer and specialized tactical execution agents managing multi-asset portfolios across cryptocurrency, equities, forex, and commodities.
- developed temporal isolation protocol ensuring zero future data leakage during backtesting. validated across 66,000+ trading decisions on blind historical data (2020-2024) with verified audit integrity.
- implemented adaptive learning system with persistent memory that evolves trading strategies based on market performance while maintaining complete decision audit trails in cryptographically hash-chained logs.
- built comprehensive security architecture including automated circuit breakers with adaptive risk thresholds, input validation systems, and multi-layer defense

protocols.

- integrated live market data across multiple exchanges and data providers with automatic fallback handling and connection resilience.
- currently validating full-system performance through extended live paper trading tests with automatic ai model fallback and recovery mechanisms.

b. introverse — arc 0 interactive narrative prototype

2025 – present

original game & show concept where players bond with ai-driven "selves" based on their zodiac. developing arc 0, a narrative prototype exploring worldbuilding, llm character behavior, and progression systems.

- prototyping an ai-narrated adventure that personalizes dialogue based on player name and birthdate, creating a bespoke interactive narrative experience.
- designing zodiac-based character assignment logic where birth dates determine the player's companion creature, with unique interactions for each zodiac sign.
- developing the creature evolution system: egg → star child (base form) → void → reflect → echo, with distinct evolutionary paths.
- conceptualizing combat mechanics and type effectiveness: void beats echo, echo beats reflect, reflect beats void.
- exploring seasonal move-sets and world dynamics (zodiac cycles, special events) through narrative simulations.

c. 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

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)