

Gary Wayne Miller II

United States | Remote / Open to Relocation [LinkedIn](#) | [GitHub](#) | [GM Cubed Designs](#) | [Medium](#)

Professional Summary

Lead Applied AI Engineer and Quantitative Developer with over 6 years of full-stack software engineering experience and a deep specialization in designing autonomous, multi-agent AI systems. Proven expertise in local LLM orchestration, retrieval-augmented generation (RAG) architectures, and robust financial technology applications. Adept at bridging machine learning with decentralized finance by building continuous-learning platforms and autonomous trading crews capable of ingesting live market data, backtesting strategies, and executing risk-reviewed decisions. United States Navy Veteran equipped with a strong foundation in high-stakes operational discipline and continuous process improvement.

Core Competencies & Technical Skills

- **AI & Machine Learning:** Local LLM Orchestration (Ollama, Hugging Face), Open-Source Models (Gemma, Llama, Qwen), RAG Architectures, Vector Databases (Qdrant), Multi-Agent Systems, Generative AI Evaluation, Deterministic JSON Pipelines.
- **Quantitative Finance:** Financial Modeling, Price Prediction, Algorithmic Trading APIs (Kraken), Quantitative Backtesting.
- **Programming Languages:** Python, TypeScript, JavaScript, Ruby, SQL, HTML, CSS, C, Go.
- **Frameworks & Technologies:** React, Node.js, Ruby on Rails, Git/GitHub, Docker, AWS.
- **Methodologies:** Agile Software Development, DevOps, CI/CD, Unit Testing, Big O Notation & Asymptotic Analysis.

Professional Experience

G M Cubed Designs | *Lead AI & Quantitative Software Engineer / Founder* | Apr 2019 – Present

- Architect and deploy localized AI ecosystems integrating tools like Ollama and Qdrant to construct secure, highly specialized RAG applications tailored for complex data environments.
- Design and maintain autonomous AI trading ecosystems capable of real-time market ingestion and quantitative backtesting.
- Evaluate and refine top-tier generative models (including Codex and Claude) for code generation, logic, and deterministic output, creating detailed rubrics to ensure high-fidelity model responses.
- Manage end-to-end full-stack development life cycles, leveraging Python and TypeScript to build scalable, secure web applications.

US Navy | *Aviation Structural Mechanic* | Feb 2007 – Jun 2010

- Performed vital, high-precision maintenance and inspections on jet aircraft, managing critical hydraulic, structural, and landing gear systems.

- Executed operational protocols with strict adherence to safety and regulatory standards, handling hazardous materials and maintaining detailed inspection records.

Select Technical Projects

- **Sidekick LLM:** Engineering a transition from a localized chat client into a fully autonomous, multi-agent software engineering agency capable of collaborative problem-solving and code generation.
- **StockMaster & Investment Matrix:** Developed an institutional-grade financial modeling and price prediction application designed to analyze and backtest over 10,000 securities using advanced quantitative metrics.
- **The Learning Tree:** Architecting a limitless, AI-driven educational application that dynamically visualizes a user's curriculum progress through an interactive, biological tree structure.

Technical Writing & Publications

Author / Contributor | [Medium](#)

- Authored comprehensive technical guides on full-stack development, including deep dives into *Big O Notation and Asymptotic Analysis*, *Metaprogramming in Ruby*, and *API Integration*.
- Published foundational web development resources focused on responsive design, HTML forms, and CSS best practices.

Education

- **App Academy** | Bootcamp in Full Stack Software Engineering (2021)
- **Udacity** | Bootcamp in Full Stack Web Development (2016 – 2018)
- **Austin Community College** | Associate Degree, Honors Program (2013 – 2015)
 - *Focus: Finance and Accounting, Harvard CS50 Coursework*

Certifications

- **Market Infrastructure Certificate (MIC)** | World Federation of Exchanges
- **Lean Six Sigma Green Belt (SSGB)** | American Society of Quality (ASQ)
- **Introduction to Cloud 101** | Amazon Web Services (AWS)