

Keno Leon

AI ENGINEER - QUANT - RESEARCHER

AI Systems • Quant Finance • Forecasting • Python • Ethereum Infrastructure

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Mexico City • Remote

POSITIONING

Frontier AI and quantitative systems builder with a 30-year implementation history spanning machine learning, systematic trading, Ethereum infrastructure, developer tooling, and neuroscience-grounded software research.

Repeatedly entered emerging technical domains before mainstream adoption and produced operational public artifacts:

- * Ethereum developer tooling in 2017
- * Live ML forecasting systems in Numerai since 2017
- * Cognitive architecture research in 2018
- * LLM workflow tooling in 2023

Output across that period includes:

195 published technical articles, 4 books, 39 public repositories, 100+ ML models, and nine years of weekly live ML scoring with real financial stakes.

WHAT I BRING

- * Build AI and quantitative systems from research concept to operational implementation
- * Prototype quickly under ambiguity with minimal management overhead
- * Develop forecasting, backtesting, and systematic trading pipelines grounded in real deployment conditions
- * Evaluate AI hype cycles with practical skepticism informed by live ML competition and market exposure
- * Translate complex technical systems into scalable educational infrastructure — articles, documentation, tutorials, and developer-facing communication
- * Operate independently across multiple parallel technical work streams
- * Bridge research thinking, engineering implementation, and market-oriented execution
- * Explain technical systems clearly to both technical and non-technical stakeholders

EXPERIENCE

Independent AI / Quant Systems Builder — k3no.com
2010 – Present

- * Sustained nine years of live production ML scoring in the Numerai quant tournament using 100+ regression and forecasting models with real financial exposure
- * Built systematic trading and market-analysis infrastructure for Binance and Polymarket workflows including backtesting, forecasting, and automation pipelines
- * Developed and shipped LLM tooling products including BubbleUI (local-first multi-model LLM interface with context injection) and Context-Kit (LLM workflow context framework)
- * Contracted directly by Numerai for frontend development and technical documentation
- * Conducted neuroscience-grounded cognitive architecture research across a 22-part article series, published book, and multiple runnable Python implementations
- * Built experimental AI systems including NeuronPlayground, STMToWM, and crowcrow, a parametric articulatory speech synthesizer based on vocal tract physics
- * Produced an early Ethereum onboarding ecosystem including a published Solidity book, 12-part technical series, smart contract security forensics, ERC20 infrastructure examples, and a 43-star GitHub repository
- * Built the Quant Matters YouTube channel focused on quantitative finance, forecasting systems, market structure, and ML-first trading approaches

Front End / Web Developer & Designer — k3no.com (US clients)
2003 – 2010

- * Delivered frontend engineering, UI/UX, and product consulting for agencies and startups across California
- * Built MVPs, CMS systems, SEO infrastructure, research pipelines, and web applications for media, biotech, and digital product clients
- * Worked across frontend architecture, branding systems, interaction design, and early-stage technical product development

Junior Research Assistant / Analyst — ING Barings
1997 – 2000

- * Rotated across equities research, trading desk operations, money markets, risk, compliance, and back office functions
- * Built internal bond market analytical tooling that became the foundation for later quantitative finance and forecasting work
- * Developed institutional finance literacy across trading operations, market structure, and financial systems analysis

TECHNICAL STACK

Python, JavaScript, Solidity, TensorFlow/Keras, OpenCV, Three.js, Web3.js, Hardhat, PyAudio, FFT signal processing, ML pipelines, forecasting systems, quantitative backtesting, systematic trading infrastructure, LLM tooling, developer tooling, Ethereum systems, financial modeling, technical writing, cognitive architecture research

SELECTED PUBLICATIONS

- * Continuity — 2026 Foundational Edition (2026)
- * Conscious Artificial Intelligence: Part 1. Foundations (2018)
- * Ethereum, Tokens & Smart Contracts (2017)
- * Making a Simple Neural Network: An Illustrated Guide (2017)

SELECTED SIGNALS

- * 195 published technical articles with hundreds of thousands of reads
- * 39 public repositories spanning AI systems, quant infrastructure, Ethereum tooling, and neuroscience-grounded software
- * 9 years of live Numerai ML competition participation
- * 100+ ML forecasting and regression models built
- * 43-star Ethereum developer tooling repository
- * Published Solidity and neural network books before mainstream adoption cycles
- * 30-year cross-domain implementation history spanning finance, software systems, AI, and technical education

EDUCATION

ITAM (Instituto Tecnológico Autónomo de México)
Economics (incomplete), 1993–1995

AMIB (Asociación Mexicana de Intermediarios Bursátiles)
Securities & Investment Certificate, 1999

Self-directed ongoing research in machine learning, quantitative finance, AI architecture, neuroscience, forecasting systems, and industrial design