Xiaoxuan Zhang

AI & Quant Systems Engineer

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Focus Areas

- AI Model Training & Forecasting
- Time Series Foundation Models
- Crypto Trading Infrastructure
- Quantitative Signal Engineering
- Blockchain Protocol Development
- Distributed Backend Systems

Technical Stack

Languages
C++, Golang, Python

AI & Quant
PyTorch, Chronos2, W&B

Infrastructure
Redis, MongoDB, Kubernetes, Docker

Trading
TradingView, Pine Script

PROFILE

Software engineer with experience spanning distributed systems, blockchain infrastructure, and quantitative trading platforms. Currently focused on integrating transformer-based time-series models into real-world cryptocurrency trading pipelines, combining AI forecasting, statistical learning, and market infrastructure engineering.

EXPERIENCE

2024–now **AI-driven Crypto Forecasting Research** UNIVERSITY OF AMSTERDAM
Fine-tuning Chronos2 time-series foundation models for probabilistic cryptocurrency return forecasting; integrating uncertainty-aware signals with Hawkes-process and volatility models for live trading pipeline deployment.

2021–now **Crypto Trading Infrastructure** INDEPENDENT / OPEN SOURCE
Built end-to-end quant trading infrastructure: real-time C++/WebSocket market data ingestion into Redis/MongoDB, Python backtesting modules, and Go-based execution interfaces for live signal deployment.

2021–2024 **Senior Software Engineer** MAVENIR
Delivered high-availability distributed backend services on Kubernetes at scale.

2018–2020 **Blockchain Engineer** LAVA
Implemented consensus logic and storage optimisations for a Bitcoin-derived blockchain protocol in C++; maintained live production infrastructure.

SELECTED PROJECTS

Projects spanning the full AI-driven crypto trading pipeline — from market data infrastructure and TSFM forecasting to signal generation and live execution. More at xiaoxuanzhang.com/#projects.

ChomoSyncer
Built a real-time exchange ingestion and persistence system serving AI-driven quantitative trading workflows.

Chronos2 Crypto Forecasting
Fine-tuned foundation models for probabilistic return forecasting and uncertainty-aware signal generation.

Risk-Calibrated Crypto Signal Framework
Designed a signal framework integrating TSFM forecasts, volatility estimation, and Hawkes-process excitation for risk-adjusted evaluation.

Chomolungma
Modular execution platform for live strategy deployment and signal-to-order integration.

EDUCATION

2024–2026 **M.Sc. Computational Science** UNIVERSITY OF AMSTERDAM
Focus: computational finance, parallel computing, AI-driven time-series forecasting, and quantitative trading systems.

2009–2015 **B.Eng. & M.Eng. Control Engineering** WUHAN UNIVERSITY
Strong foundation in mathematics, systems engineering, and software development.