

Mark Zhou

AI AUTOMATION ENGINEER
INDEPENDENT DEVELOPER



BASIC INFO

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SKILLS

- Python (10 years)
- LLM Integration
- Agent Workflows
- API Development
- Cloud and DevOps
- Automation
- Bilingual (TEM-8)

EDUCATION

University of International Relations

BA, English Language & Literature

2007 - 2011

TEM-8

TEM-8 (English Majors)

SUMMARY

10 years Python, 170+ videos processed via AI pipeline. Since 2019, deep learning (CNN/RNN/GAN); recently shifted to LLM apps and agentic AI. Integrating OpenAI, Claude, Gemini to build agent-first automation for business processes.

EXPERIENCE

Freelance

2024.3 - Present

Freelance AI Automation Engineer

- **Agent-First Workflow Design:** Built AI automation systems with dual-mode operation — human CLI and AI agent invocation, so every tool serves as both user interface and agent skill.
- **LLM Integration:** Integrated OpenAI, Claude, and Gemini APIs into production tool chains and multi-model orchestration pipelines for end-to-end business automation.
- **Tar Engine / tarai.dev:** Open-source AI skill audit engine with dual-track A-F grading across 6 risk categories. Automated daily pipeline auditing 30-50 skills.
- **PostAll (Open-Source):** Cross-platform content distribution CLI publishing to 8+ platforms with one command, open-sourced on GitHub with agent-CLI architecture.
- **AI Video and Chat Pipelines:** Whisper plus GPT-4o plus FFmpeg video pipeline (170+ videos, zero manual work). Group chat digest system producing executive briefings via Gemini API.

Independent

2019 - Present

Quantitative Strategy Developer

- **Multi-Strategy System:** Quantitative trading across A-shares and crypto with market-neutral, momentum, CTA, and DCA strategies. 2+ years live on Binance with custom backtesting engine in Python (pandas, numpy, ccxt).
- **Risk Management and Automation:** Real-time monitoring for positions, leverage, and drawdown. Strategies deployed on cloud servers 24/7. LLM-assisted strategy validation and research.

CMG

2013.11 - Present

Engineer (Contract)

- Technical coordination and bilingual project management for international sports broadcasting including 2026 Nagoya Asian Games. Liaison with organizing committees and Host Broadcasters.

北京中视君博广告公司

2012.7 - 2015.1

Senior Copywriter

- TVC advertising strategy, copywriting, and competition analysis.

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2011.5 - 2012.6

Senior Program Manager & BD

- Business development with cartoonists and illustrators. Online comic platform operations.

CORE COMPETENCIES

- **AI System Integration:** Integrating OpenAI, Claude, Gemini for production automation
- **Agent-First Design:** All tools support dual-mode: human CLI and AI agent invocation
- **Quantitative Trading:** Multi-strategy system across A-shares and crypto markets
- **Bilingual Communications:** TEM-8 English, 10+ years working in international teams