

Lucy Tran - AI & Algorithmic Trading Bot Dev Freelancer

+1 343 401 6826 | lucytrancs@gmail.com | Portfolio: <https://lucydev.netlify.app/>

Summary

AI & Algorithmic Trading Bot Developer specializing in Python, Machine Learning, and full-stack solutions for stock/crypto markets. Expertise in designing/deploying trading systems, real-time data integration (Binance, Bybit, MEXC, trading platforms), AI predictive modeling, and automated strategies. Experienced in custom platform building, bot optimization, and TradingView. Transforms complex financial concepts into impactful trading applications, managing full project lifecycle (UI/UX to deployment).

Skills

- **Programming:** Python, TypeScript, JavaScript, Java, Ruby, Pine Script
- **AI/ML:** TensorFlow, Keras, PyTorch, Transformers, Scikit-learn, NLTK, spaCy, Pandas, NumPy, OpenAI API, Multi-task Learning, News Sentiment
- **Trading & Finance:** Algorithmic Trading, Quant Analysis, Stock/Crypto Analysis, Technical Analysis (RSI, MACD, etc.), Order/Position Management (SL/TP), Backtesting, Risk Management
- **Exchange APIs:** Binance, Bybit, MEXC, ccxt, yfinance, TA-Lib
- **Backend:** FastAPI, Node.js, Spring Boot, WebSockets, REST APIs, Async Programming
- **Frontend:** React, Vite, Angular, Mantine UI, Zustand, TanStack Query, Blockly
- **Databases:** PostgreSQL, SQLite, MongoDB, DocumentDB, SAP HANA, MySQL
- **DevOps & Cloud:** AWS (Lambda, EC2), Docker, Kubernetes, Netlify, Railway, CI/CD
- **Tools:** Git, JIRA, Streamlit
- **Methodologies:** Agile, Full-Stack Development, UI/UX, Real-time Systems

Trading Projects & Freelance Experience

Custom Trading Bot Platform (Blockly, Binance)

Lead Developer, Full-stack | 04/2025 – Ongoing

- Led creation of a trading bot platform with a Blockly visual strategy editor.
- Built full-stack solution: Python (FastAPI) backend for live Binance API (REST/WebSocket) interaction; React/Vite frontend.
- Developed high-performance async execution engine, secure API key handling, and position tracking (incl. Binance Hedge Mode).
- *Technologies: Python, FastAPI, React, Vite, TypeScript, PostgreSQL, asyncpg, Blockly, Zustand, TanStack Query, Mantine UI, ccxt, WebSockets, JWT.*

Refactored Bybit Trading Bot with Real-Time Data Processing

Full-stack Developer | 05/2025 - Ongoing

- Overhauled Bybit crypto bot for enhanced robustness, reliability, accuracy, and speed.
- Redesigned architecture for persistent state (PostgreSQL) & low-latency execution via Bybit V5 API/WebSockets for precise SL/TP.
- Rebuilt backend (FastAPI) & frontend (React/Vite).
- *Technologies: Python, FastAPI, PostgreSQL, asyncpg, ccxt, WebSockets, React, Vite, TypeScript, Zustand, TanStack Query, Mantine UI, Pydantic, JWT, Docker.*

Advanced Stock Analysis & AI-Powered Trading System

AI/ML Researcher, Python Developer | 03/2025 – Ongoing

- Developing stock analysis system: AI multi-day price forecasting (Transformers), "Big Player" activity detection (volume, order flow, news sentiment).
- Designing algorithmic strategies for actionable day trading signals.
- *Technologies: Python, Pandas, NumPy, Scikit-learn, TensorFlow/Keras/PyTorch, Transformers, TA-Lib, NLTK/spaCy, yfinance, Streamlit, SQLite.*

Automated Crypto Trading Bot (MEXC, OpenAI)

Python Developer | 11/2024 – 11/2024

- Created Python bot for daily SOL swing trading on MEXC.
- Developed two versions: "Venus" (custom algorithms, technical indicators) & "Orion" (OpenAI for AI-enhanced decisions).
- *Technologies: Python, MEXC API, OpenAI API, Technical Indicators.*

Freelance TradingView Support

Consultant/Developer

- Custom TradingView indicator development (e.g., plotting horizontal rays).
- Modifying/fine-tuning TradingView strategies (Pine Script).
- Full-stack services for custom trading tools/bots (UI/UX, frontend, backend, deployment).

Professional Experience

Freelance AI Coding Trainer | Outlier

Remote | Dec 2024 – Mar 2025 (4 mos)

- Trained AI models by reviewing/refining AI-generated code and responses (English/Vietnamese).
- Created coding questions/answers to improve AI's programming understanding.

Software Engineer | SMA LLC (Quest Partner)

US (Remote) | Aug 2022 – Aug 2024 (2 yrs 1 mo)

- Developed features for database monitoring tools (Foglight) for AWS DocumentDB, SAP HANA, MongoDB Atlas.
- Designed/developed monitoring UIs (Angular) & backend APIs (Java). Built AWS Lambda for cost optimization.
- *Technologies: Java, Angular, AWS, MongoDB, DocumentDB, SAP HANA.*

Software Engineer | NTT DATA

Germany (Remote) | Mar 2021 – Jun 2022 (1 yr 4 mos)

- Implemented OCPP protocol for charging station management (backend/UI).
- Developed UI (AngularJS), REST APIs (Java JAX-RS/WS), background tasks, automation tests.
- *Technologies: Java, JAX-RS/WS, Kubernetes, Hibernate, AngularJS, Kafka, Elasticsearch, GitLab CI/CD.*

Java Developer | Viettel Cyber Security

Vietnam | Mar 2020 – Feb 2021 (1 yr)

- Maintained/developed AI-powered network security system for government.
- Built REST APIs (Java Spring), used Elasticsearch, Docker.
- *Technologies: Java, Spring, Docker, Redis, MySQL, Kafka, Elasticsearch, GitLab CI/CD.*

Software Developer | Topica Edtech Group

Vietnam | Aug 2019 – Feb 2020 (7 mos)

- Maintained Edumall LMS & marketing systems. Developed real-time classroom interaction feature.
- *Technologies: Node.js, Ruby on Rails, ReactJs, NoSQL.*

Software Developer Intern | VNP Group

Vietnam | May 2019 – Jun 2019 (2 mos)

- Developed features for Wehelp Vietnam service exchange platform (frontend/backend).
- *Technologies: Java, Vertx, ReactJs.*