

# Theodore Xiong

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## EDUCATION

**University of Illinois at Urbana-Champaign | Champaign, IL**

**Expected Graduation: December 2026**

*B.S. Computer Engineering*

**Relevant Coursework:** Computer Systems & Programming, Data Structures, Algorithms & Models, Applied Machine Learning, Digital Systems, Computing and Data Analysis, Text Information Systems, Computational Photography

## WORK EXPERIENCE

**UIUC Technology Services | Champaign, IL**

**August 2024 - August 2025**

*Student IT Consultant*

- Provided technical counsel regarding university technology for students, faculty and alumnus, while maintaining a 98.6% satisfaction rate from clients and contributing to the department overall >95% satisfaction
- Demonstrated exceptional client interaction skills and technical competency by offering clear and targeted technical solutions regarding university network, cyber security, e-mail delivery system, etc.

**Outlier AI | Remote**

**April 2024 - November 2024**

*Coding Expertise for AI Training*

- Evaluated the coherence and accuracy of Python code written by generative large language models, identified areas for improvement and provided comprehensive feedback to the development team
- Wrote clean, optimized and documented code in Python for LLM style prompts to facilitate the iterative refinement of LLMs' coding ability, resulting in a 12.4% mean performance increase across 8 projects.

## PROJECT HIGHLIGHTS

**Algorithmic Trading in Python** (python, pandas, numpy, API integration)

- Built a Python-based trading engine incorporating adaptive EMAs, MACDs, dynamic stop losses and position sizing, and tiered profit targets that automatically adjust to different volatility and volume regimes
- Designed and deployed a comprehensive backtesting and live trading framework with an automated parameter optimizer utilizing grid search and data-driven performance metrics
- Achieved a mean 1Y Sharpe ratio of 1.24, 2Y Sharpe ratio of 1.28, and mean 1Y/2Y returns of 17.2%/28.7% in simulated backtests, validated by 12.3% returns over a 12-month live deployment using Alpaca API

**InstaTruth.app** (python, torch, flask, API integration)

- Designed and launched InstaTruth.app, a web application providing real-time fact-checking and credibility scoring for social media content, improving user trust in online information
- Developed full-stack architecture using modern frameworks (React/Tailwind + Flask/SQL) with scalable APIs and a responsive UI, ensuring seamless performance across devices
- Leveraged open-AI whisper, custom-trained BERT NLP model, google search api, and llm integration

**PokerBuddy.app** (python, flask, react, tailwind, pandas, numpy)

- Designed a poker tracker that allows users to track poker session details, including buy-in/buy-out, location, datetime & duration, session participants, etc. Implemented comprehensive analytical tools to reveal user's poker habits and trends, including stakes analysis, timing analysis, etc.
- Built a modern and responsive web-app leveraging python/flask for backend and react/tailwind for frontend. Quickly iterated through several frontend designs and pushed new features based on early stage user testing.

## TECHNICAL SKILLS

**Software:** Python, C/C++, SystemVerilog, Verilog, React, Tailwind, SQLite, PostgreSQL, RISC-V, Docker, Git

**Hardware:** Xilinx Vivado, Xilinx Vitis, KiCAD, Analog Circuit Design/Analysis, Sequential/Combinational Logic, Time/Frequency Analysis, Oscilloscopes, Function Generators, Power Supplies

**Languages:** Fluent in Mandarin, Conversational in French