Theodore Xiong

Philadelphia, PA | tyxiong2@illinois.edu | 215-951-3838 | www.theoxiong.com

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

InstaTruth.app (Python, Torch, Scikit-Learn, 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.
- Leveraged Open-AI whisper, a custom-trained BERT NLP model, Google Search API, and LLM integration to create a verification pipline. Developed full-stack webapp using modern frameworks (React, Tailwind, Flask, SQL).

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

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

- Designed a poker web app that allows users to track their poker session details, (including buy-in/buy-out, location, datetime & duration, session participants) and analyze their play's long-term playing statistical outlook.

Tennis Ball Recognition (Python, openCV, image processing)

- Implemented a tennis ball image recognition system using openCV and Python. Applied image recognition techniques such as sRGB filtering, Gaussian blurring and hough-circle transfromation to achieve a mean frame recognition success rate of 87.2% and mean processing frames per second of 59.5.

Unix-Like OS Kernel (C, RISC-V, OS Dev)

- Developed a full-featured RISC-V operating system kernel in C implementing core OS components including virtual memory management, process scheduling, thread management, interrupt handling, and file system operations.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Javascript, HTML/CSS, SQL, RISC-V
Tools/Frameworks: Flask, React, Tailwind, Torch, Scikit-Learn, numPy, PostgreSQL, SQLite, Docker, Git, Linux, Railway
Languages: Fluent in Mandarin, Conversational in French