Theodore Xiong

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EDUCATION

University of Illinois at Urbana-Champaign | Champaign, IL   **Expected Graduation: May 2026**
Bachelor of Science in Computer Engineering
Relevant Coursework: Computer Systems & Programming, Data Structures, Text Information Systems, Linear Algebra with Computational Applications, Analog Signal Processing, Digital Systems Laboratory, Computing and Data Analysis

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Verilog, SystemVerilog, JavaScript, HTML5
Software Tools: SQL-based Databases, Git, Linux/Unix Shell, OOP, Data Visualization, Text Retrieval/Mining, word2vec
Hardware Tools: Vivado, KiCAD, Analog Circuit Design, Sequential/Combinational Logic, Oscilloscopes, Function Generators, Power Supplies
Languages: Fluent in Mandarin, Conversational in French

WORK EXPERIENCE

UofI Technology Service | Champaign, IL   **September 2024 - Current**
Student IT Consultant
- Provide technical support via phone, email, and in-person interactions, maintaining a 98.6% satisfaction rate from clients and contributing to the company overall >95% satisfaction
- Demonstrate exceptional customer service while offering clear technical solutions, contributing to increased efficiency within the IT department

Outlier AI | Remote   **April 2024 - September 2024**
AI Writing Evaluator
- Evaluated and analyzed the coherence and mathematical accuracy of generative large language model content, identifying areas for improvement and enhancement
- Conducted review and provided comprehensive feedback and recommendations to the development team, contributing to the iterative refinement and optimization of AI models

UofI Computer-Based Testing Facility | Champaign, IL   **August 2023 - December 2023**
Exam Proctor
- Supervised exams for over 80 students, ensuring adherence to testing protocols and academic integrity
- Addressed technical issues during testing, providing real-time troubleshooting of software and hardware failures

PROJECT HIGHLIGHTS

Algorithmic Trading in Python
- Developed and tested stock trading algorithms leveraging LSTM models, momentum analysis, and custom indicators using Python
- Achieved a maximum return of 14.9% on back-tested data and 7.82% in live paper trading using Alpaca API
- Applied machine learning techniques to optimize strategies and analyzed performance through detailed data visualizations

NBA Stats Prediction Model
- Engineered a predictive model that integrated NBA player stats, team metrics, and advanced statistical analysis
- Utilized Keras and Python to generate range predictions, achieving a 57.3% accuracy rate for the 2023-2024 NBA season
- Visualized statistical data and predictions using Plotly, improving data interpretation and actionable insights for users