# Jeffrey Lu

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**EDUCATION** 

## University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science, Minor in Statistics

GPA: 4.00

Expected: May 2027

Relevant Coursework: System Programming, Distributed Systems, Advanced Bayesian Analysis, Numerical Methods I, Intro to Algorithms and Models of Computation, Data Structures, Computer Architecture, Probability & Statistics for Computer Science, Discrete Structures, Multivariable Calculus, Computational Linear Algebra

EXPERIENCE

Handshake AI Sep. 2025 – Present

Handshake AI MOVE Fellow

Remote

Molex LLC May 2025 – Aug. 2025

Supply Chain Software Engineer Intern

Lisle, IL

- Led testing and development of Infor's AI/ML resolution engine during its beta launch, recommending proactive solutions for 10,000+ stockout inventory risks and generating over \$2.6M in value by the end of the internship
- Utilized SAP and Infor Nexus to analyze multi-grain datasets, driving insights for strategic supply chain decisions focusing on last-mile delivery strategies
- Designed and executed SQL and Excel queries on MRP systems to report and track key performance indicators
- Produced multiple training documents and videos to facilitate cross-team knowledge sharing for 100+ users, contributing to a 200%+ growth in active usage during the beta phase

Quant at Illinois Aug. 2024 – Present

 $Quantitative\ Trading\ Analyst$ 

Champaign, IL

- Researched historical market data and trading strategies to identify emerging opportunities
- Developed and backtested pairs trading and momentum-based strategies using C++ and Python

## Northwestern University

May 2023 – Oct. 2023

Research Assistant Evanston, IL

- $\bullet$  Developed and executed bash scripts in Unix to automate CUDA simulations of superconductor configurations, accelerating research workflow by 60%
- Designed data pipelines in Python, using Matplotlib and NumPy for visualization and analysis of results
- Authored detailed technical reports and presented research findings at a university symposium

#### Projects

### NBA Sports Betting Models | Python, SQL

Dec. 2024 - Present

- Engineered a data acquisition process using requests, pandas, and selenium to scrape player statistics from NBA.com and betting odds from sportsbooks into a SQLite database
- Developed and implemented a data pipeline to clean, structure, and preprocess raw data
- Applied statistical and machine learning models such as mean-variance analysis, ARIMA, and TensorFlow-based models to predict player performance and betting outcomes, achieving a simulated 14% ROI over the 2025 playoffs

#### Personal Website | SQL, PHP, HTML, CSS

Aug. 2024 – Present

- Designed a secure user authentication system with SQL and PHP, ensuring efficient data management
- Developed a responsive, card-based website, ensuring seamless performance and cross-platform responsiveness
- Integrated backend and frontend components to deliver a full-stack website, providing dynamic content display

### MathWorks Math Modeling Challenge | Python, MATLAB

Feb. 2023 – Mar. 2024

- Implemented an agent-based model and used Fourier transforms to simulate and forecast homelessness trends
- Developed a Random Forest model to recommend solutions, simulated reducing homelessness by 16% over 50 years
- Awarded Honorable Mention in Technical Computing: top 5 out of 655

## AWARDS & HONORS

Chancellor's Scholar: Campus Honors Program: 150 students selected per cohort

2024 - Present

AIME Qualifier 2x: American Invitational Mathematics Examination, Math Olympiad: Top 5000 in US 2023–2024

NAC Qualifier: National Astronomy Competition, Astronomy Olympiad: Top 100 in US 2023–2024

TECHNICAL SKILLS

Languages: C, C++, C#, Java, Python, SQL, JavaScript, HTML/CSS, R, PHP, bash, Typescript

Frameworks and Libraries: React, Tailwind, Pandas, NumPy, MatPlotLib, TensorFlow, sockets (Python), requests Developer Tools: Git, Docker, VS Code, Visual Studio, Anaconda, Unix/Linux, Jupyter Notebook, Excel, EveryAngle