Jiaqi (Scarlett) He

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EDUCATION

University of Chicago   **Sep. 2024 - Dec. 2026**
Bachelor of Science, *Statistics*   GPA: 3.83/4.00

University of Illinois Urbana-Champaign   **Aug. 2022 - May. 2024**
Bachelor of Science, *Statistics & Computer Science*   GPA: 3.98/4.00

SKILLS

- **Programing Languages:** Python (Pytorch, Pandas, NumPy, Scikit-Learn), R, SQL, C++
- **Tools:** Excel, PowerPoint, Microsoft Office, PowerBI, Tableau, AWS
- **Technical Skills:** Natural Language Processing, Machine Learning, Statistical Modeling, Data Visualization
- **Interests:** AI Safety, Badminton, Table Tennis, Pickleball, Hiking, Baking, Cooking

PROFESSIONAL EXPERIENCE

AntGroup | *Python*   **Shanghai, China**
Research Intern   *Aug. 2025 – Sep. 2025*
- Analyzed 12140+ Alipay household consumption patterns to identify age-specific product preferences, generating 2 market analysis reports that informed strategic policy recommendations for targeted industry support across China
- Developed an algorithm to quantify AI's impact on Total Factor Productivity (TFP) across industries

UChicago Data Science Institute | *Pytorch, HuggingFace*   **Chicago, IL**
Research Assistant   *Jun. 2025 – Aug. 2025*
- Designed an annotation schema to annotate ~2.5k jokes and fine-tuned 5 pretrained LLMs to classify humor types to detect offensive content online, achieving 94% accuracy, reducing potential social risks
- Prompt engineered LLMs as result benchmark, showed 54% increase in F1 score in finetuned models compared to OpenAI

Marmon Holdings – A Berkshire Hathaway Company | *Python, SQL, PowerBI*   **Skokie, IL**
Business Intelligence Intern   *Jun. 2024 – Aug. 2024*
- Facilitated revenue and invoice tracking by designing 5+ PowerBI dashboards for 3 Marmon companies
- Implemented an ETL process to centralize outsourced data, supporting performance comparisons across business units
- Utilized SQL queries to analyze warehouse data and forecasted glove storage exceeding 110% capacity within three months, proactively initiating expansion plans to prevent supply chain disruptions
- Developed a data pipeline using Python to automate handling process for POS, reducing workflow times by 75%

PricewaterhouseCoopers | *Excel, Python*   **Shanghai, China**
Core Assurance Intern   *Jul. 2023 – Aug. 2023*
- Automated data cleaning and validation processes using Python, improving data quality and reducing manual review time
- Created 5+ sales data visualizations using matplotlib that enabled audit teams to spot anomalies across business units

PROJECTS

Nutrition Analysis Tool with Generative AI | *Git, Shell, AWS*   *Jan. 2024 – Aug. 2024*
- Collaborated with a team of eight using Git version control and AWS to develop an AI chatbot to provide nutrition advice
- Conducted competitor analysis to identify user needs and optimize product functionality for differentiation
- Deployed the app on iOS, providing tailored advice to 10+ users based on their diet photos and questions towards their goals, receiving 100% positive feedback, succeeded in helping 2 users meet weight loss goals within 60 days

Interactive Voice Response System Optimization | *Python*   *Mar. 2024*
- Optimized the IVR System with Machine Learning algorithms such as Random Forest/XG Boost, improving call routing accuracy and reducing transfers to agent, which lowered staffing needs by 3% and boosted call center efficiency

LEADERSHIP INVOLVEMENT

Uchicago Table Tennis Club   **Chicago, IL**
Vice President, Treasurer   *May. 2025 – Present*
- Enhanced club visibility by managing social media communications, resulting in a 30% year-over-year membership growth
- Led fundraising initiatives, generating over $2,000 to support club events and member participation in NCTTA competitions