Xinyue Zhang

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EDUCATION

Stanford University   **Anticipated Graduation: Dec 2026**
Master of Science in Computer Science

Northwestern University   Murphy Scholar, Summa Cum Laude
Bachelor of Science in Computer Science   **GPA: 3.99, Graduated June 2025**

SKILLS

Computer Languages: Python, C++, JavaScript, SQL
Technologies and Libraries: React.js, Pandas, PySpark, Airflow, Tableau, AWS
Languages: Native Mandarin Chinese, Conversational Spanish

WORK EXPERIENCE

Software Engineering Intern   **June 2025 – Present**
PwC (PricewaterhouseCoopers)
- Contributing to internal AI initiatives through prompt engineering and model evaluation to improve the performance of emerging systems.
- Supporting frontend development in React.js and JavaScript by resolving UI bugs and improving platform stability.
- Participating in QA and testing cycles for new product releases, enhancing functionality and reliability.

Data Analyst Intern (ML & Data Engineering Focus)   **March 2025 – June 2026**
Tesla
- Resolved 15+ cross-functional tickets; collaborated with firmware and engineering teams to assess and resolve regression issues.
- Deployed an ML model predicting brake system deterioration across the Model 3 fleet, integrated into production.
- Designed a human-in-the-loop time-series ML pipeline to surface high-signal samples for engineers, expediting root cause identification.

Summer Undergraduate Researcher   **July 2024 – September 2024**
Design, Technology, and Research, Delta Lab
- Co-led research to conceptualize models that help designers evaluate differences in machine representations of abstract human experiences across different reference systems.
- Self-directed the development of a low-tech data analysis model, aiming to bridge the gap between human concept expression and machine interpretation, and surface actionable insights for designers.
- Submitted a paper as the first author to the CHI 2025 Conference based on this research, focusing on exploring contextual differences in human experience design.

Research Assistant   **December 2023 – June 2024**
Undergraduate Research Assistant Program, IMEC Lab
- Worked hands-on to design autonomous convertible quadcopter drones with sprawling capabilities.
- Modified cameras and used free open-source libraries to implement multi-camera motion trackers, capturing the trajectory of drones.

PROJECTS

Data Analysis Platform Integration   **September 2023 – Present**
Software Team Lead, NU Solar
- Led the integration of a data analysis system that parses CAN data, automating the data storage and processing onto AWS.
- Led the implementation of two separate visualization pipelines: one for the driver dashboard to display real-time data, and another for backend time-series analysis to support engineering diagnostics.
- Utilized SQL for efficient data querying, and Python for processing, ensuring that the platform operates across distributed systems