

Si Qin Huang

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EDUCATION

RICE UNIVERSITY – Houston, TX

August 2025 - December 2026

Master of Data Science

- Specialization: Machine Learning
- GPA: 3.97 / 4.00
- Awards and Fellowships: Full I-ACED Scholar Award, AAUW Selected Professions Fellowship

BAYLOR UNIVERSITY – Waco, TX

August 2021 - May 2025

Bachelor of Science in Data Science

- Minors: Business Administration and Statistics
 - GPA: 3.89 / 4.00; Dean's List (7 Semesters); Honors College Baylor Interdisciplinary Core; Certificate in Global Engagement
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EXPERIENCE

Rice Center for Engineering Leadership (Agellus Tank Robotics Inc.) – Houston, TX

May 2026 - August 2026

AI & Data Engineering Intern

- Selected by Rice's Summer Engineering Innovation Program to build an **AI-powered** lead generation and CRM platform, replacing the manual prospecting process used by a B2B robotics-as-a-service sales organization
- Architected a **Google Cloud pipeline** that ingests tank facility records across six states on scheduled refreshes
- Built a **weighted heuristic scoring model** that ranks **20,000+** facilities on tank profile, contactability, and data completeness

RICE UNIVERSITY – Houston, TX

January 2026 - August 2026

Graduate Teaching Assistant

- Evaluated two semesters of **Python**, **SQL**, and **PySpark** programming assignments for **50+** students in a graduate-level **Big Data** course, providing detailed feedback and guidance
- Held **30+** weekly office hours, offering **personalized support** to clarify difficult topics and build student performance

FEDEX CORPORATION – Remote

June 2025 - August 2025

Information Technology Intern

- Developed a **full-stack web application** using **Angular** and **Spring Boot** to unify two platforms into a single interface, **enhancing data accessibility** for internal users by **50%**
- Led **product ownership** responsibilities within an **Agile** team, driving sprint planning, backlog prioritization, and stakeholder communication to ensure **timely delivery** of product within **10 weeks**
- Built **CI/CD** pipelines using **GitHub Actions** to automate building, testing, and deployment of application

BAYLOR UNIVERSITY – Waco, TX

January 2024 - May 2025

Undergraduate Teaching Assistant

- Supported professor for three semesters by grading homework and assessments for **60+** students, providing detailed feedback that improved student understanding of **cloud computing** topics
 - Led **45+** weekly office hours to clarify complex course topics in **AWS**
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PROJECTS

RICE UNIVERSITY – Houston, TX

October 2025 - December 2025

ASLive: Sign Language Video Classification via Transfer Learning on WLASL

- Trained an ASL-to-English **translation model** using **2D CNNs** and **BiLSTMs** in **Python**, implementing a custom video data loader using **PyTorch** and optimizing hyperparameters to reach about **90%** training accuracy across **10** classes
- Experimented with **freezing CNN layers** to develop a lightweight model to reduce the backpropagation operations, decreasing training time by **20%**

RICE UNIVERSITY – Houston, TX

January 2026 - May 2026

Signals of Prestige in Film Discourse: A Transformer-Based Approach to Predicting Best Picture Winners

- Built a **transformer-based NLP pipeline** to predict Academy Award Best Picture winners from film reviews, achieving **22%** top-1 accuracy and **44%** top-3 accuracy
 - Engineered an end-to-end dataset of **45,000+** critic and user reviews spanning **78** nominated films over **9** ceremony years
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SKILLS

Programming Languages: Python, SQL, R, SAS, JavaScript, TypeScript, HTML, CSS

Frameworks & Tools: GitHub Actions (CI/CD), PostgreSQL, AWS, PySpark, Angular, Node.js, Spring Boot

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, TensorFlow, Power BI