**Guan Chen**

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**EDUCATION**

**University of Texas at Dallas Aug. 2019 - Present**

Master of Science, Social Data Analytics and Research Jan. 2024 – Dec 2025

3.953 / 4.0

Bachelor of Science, BiochemistryAug. 2019 – Dec. 2022

3.691 / 4.0

Academic Excellence Scholarship Award

SPUR Honors Presentation Award

**PROJECTS**

**Credit Default Prediction Model**

* Optimized a credit default prediction model using machine learning techniques in **Python** , leveraging **Scikit-Learn**, **Pandas**, and **PyTorch**
* Engineered features to enhance understanding of spending behavior, improving model performance

**Automated Expedia Data Pipeline**

* Developed a web scraper using **Python**’s Selenium package to automate the collection of airline prices, flight durations, and layover details from Expedia

[**Designed and Deployed Relational Database Analytics Web Application**](https://guanhchen.shinyapps.io/expenseapp/)

* Developed a dynamic web application in **R** using Shiny, integrated with **PostgreSQL** for secure storage and efficient management of expense data
* Designed and implemented an interactive dashboard to analyze personal expenses, providing detailed insights into spending patterns to support effective budgeting strategies

**WORK EXPERIENCE**

**University of Texas at Dallas Jan. 2022 – Present**

*Research Assistant Richardson, TX*

* Mentored and trained 7 undergraduate students in experimental design and data analysis
* Reduced experiment preparation time from 45 minutes to 5 minutes by optimizing protocols
* Implemented risk mitigation strategies, decreasing contamination rates in cell cultures by 90%, significantly improving experimental outcomes
* Analyzed and presented research findings at academic conferences, effectively communicating insights to academic peers and industry professionals

**EXTRACURRICULARS**

UTD Summer Biology Camp Speaker Jul. 2021

Pre-Veterinary Medicine Society President 2019 – 2021

**CERTIFICATES**

Google Data Analytics Certificate Jun. 2024