

# Courtney Dickenson

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## EDUCATION

### The University of Texas at Dallas

*Bachelor of Science in Computer Science*

Graduated Dec. 2024

*Richardson, TX*

## WORK EXPERIENCE

### Software Engineering Intern

*CBRE*

June 2024 – Aug. 2024

*Dallas, TX*

- Developed internal software solutions to optimize business processes, focusing on scalability and integration within company systems.
- Designed and implemented processes for workflow efficiency and data handling.
- Collaborated with developers to troubleshoot, optimize, and implement solutions.

### Assistant General Manager

*8.0 Management*

April 2019 – Aug. 2020

*Dallas, TX*

- Opened a new location of Flying Saucer in partnership with management.
- Organized and marketed events, including anniversary parties and fundraisers.

### Graphic Designer

*Willow and Birch Design and Printing*

May 2018 – Apr. 2019

*Paris, TX*

- Proficient in Adobe InDesign, Photoshop, and Illustrator.
- Managed client relations and design projects, ensuring client satisfaction and project deadlines.

### Automotive Product Specialist

*Quality Dealerships*

Dec. 2016 – Mar. 2018

*Albuquerque, NM*

- Achieved top sales status 53% of the time during employment.
- Maintained mastery of each model, including all trim levels and options.

## ACADEMIC PROJECTS

### HackUTD — Placed 3rd with CBRE

- Developed “ShareWood,” a website enabling users to buy stakes in properties, leveraging a Vision-and-Language Transformer (ViLT) model fine-tuned for property evaluation from photos.
- **Stack:** Python, Quasar, Firebase, Vue

### Implementation of Robust GSIM Steganography Model — Research Project with Dr. Salih

- Implemented a coverless steganography model to securely transmit information without altering carrier images, based on GSIM research published in Aug. 2024.
- Used fractional-order Chebyshev-Fourier moments and SURF features to establish mappings, enhancing robustness, security, and capacity.
- **Stack:** Python, OpenCV, GitHub, PyTorch, PIL, Matplotlib, NumPy

### Virtual CPU — Operating Systems Project

- Designed a virtual CPU with process scheduling, memory allocation, and CPU cycle simulation, building skills in low-level programming and memory management.
- **Stack:** C++

## SKILLS

**Programming Languages:** Java, C++, C, C#, Python, JavaScript, TypeScript, SQL, Lisp

**Software and Tools:** Docker, Anaconda, Jupyter Notebooks, VS Code, UiPath, Microsoft Power Automate, GitHub

**Cloud Platforms:** Microsoft Azure, AWS, Google Colab

**Frameworks and Libraries:** React, Django, Flask, Quasar, Pandas, NumPy, Matplotlib, Godot

**Basic Machine Learning Knowledge:** Model Optimization, Feature Engineering, SVMs, Boosting, Dual Formulations

**Professional Skills:** Agile, Project Management, Communication, Time Management