

Kayla Nguyen

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EDUCATION

University of Texas at Dallas

Richardson, TX

B.S. in Computer Science & Minor in Economics, GPA: 3.83/4.0

May 2026

- **Relevant Coursework:** Data Structures, Algorithmic Analysis, Database Systems, Big Data Analysis, Human-Computer Interaction, Linear Algebra, Probability & Statistics, Software Engineering, Operating Systems
- **Honors:** Academic Excellence Scholarship

SKILLS

Languages: Python, SQL, HTML, CSS, JavaScript, C/C++, Java, MATLAB

Technologies & Tools: Git, React, Pandas, Linux OS, Microsoft Suite, VSCode, Jupyter, Oracle SQL Developer

RELEVANT EXPERIENCE

University of Texas at Dallas

Richardson, TX

Research Assistant

May 2024 – Present

- Designed, tested, and implemented Python pipelines to process and analyze 200+ hours of real-time neural and behavioral data from mice, enabling insights into behavior clustering and neuropsychiatric conditions.
- Applied ML techniques to decode cell-type-specific neural firing patterns and correlate them with behavioral event markers, enhancing accuracy of action classification.
- Utilized principles of software engineering to streamline neuroscience workflows in collaboration with PhD researchers.
- Supported long-term goals of modeling Parkinson's-related motor disabilities through high-fidelity behavioral tracking and neural decoding systems.

Carrollton Family Dentistry

Carrollton, TX

Full Stack Engineering

May 2023 – Present

- Organized and digitized 1,000+ patient and healthcare records using Microsoft Excel and SQL database
- Designing a full stack web application to create, store, and access patient data with a simple UI for non-technical employees to use

PROJECTS

- **Vigenere Cipher Encryption / Decryption Program:** Built a Python program using object-oriented concepts that encrypts and decrypts strings using the Vigenère cipher, leveraging user-specified keys and the subprocess module – used Git for version control and Jupyter/VS Code as environments.
- **Comic Strip Website:** Developed a comic strip website by creating original digital illustrations and implementing responsive layouts and animations using HTML, CSS, and JavaScript.
- **Tic-Tac-Toe:** Built an interactive 2 player tic-tac-toe game using React framework.

LEADERSHIP

Cyber Security Club, Secretary / Graphic Designer

Aug 2023 – May 2025

- Led and organized outreach and club events including guest speakers and information meetings
- Created graphics for social media to increase outreach through the use of Canva and Figma.

Baking for a Cause, Vice President

Jan 2022 – Present

- Coordinated baking events for donating to homeless shelters and food pantries in DFW
- Managed fundraisers, developed recipes, and mentored new bakers in baking skills.