

THIEN NGUYEN

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EDUCATION

The University of Texas at Dallas - Richardson, TX
Master of Science Major in Computer Science

August 2024 – May 2026

The University of Texas at Dallas - Richardson, TX
Bachelor of Science Major in Computer Science

January 2022 – December 2024

Coursework: Advanced algorithms, Database Systems, Data Structures, Probability, Software Engineering, Machine Learning, Computational Methods for Data Scientists

Houston Community College - Houston, TX
Associate of Science Major in Computer Science

August 2018 - August 2021

CERTIFICATE

The University of Texas at Dallas – Fullstack Academy

Data Analytics Bootcamp Certificate – Microsoft Excel, Microsoft PowerPoint, SQL, Python, R, Tableau, AWS

Earned October 2022

PROJECTS

Healthcare Correspondence LLM (Python, Chroma DB, Llama 2, Flask API, Tesseract OCR, HTML, CSS, JavaScript) *Jan 2024 – May 2024*

- Developed a proof-of-concept Healthcare Correspondence Chatbot utilizing OCR, Chroma database, LLama 2 LLM, and a user-friendly web interface to simplify document searches for healthcare professionals.
- Collaborated in a team to process and store over 10,000 healthcare correspondence documents, integrating OCR, data vectorization, and semantic similarity search for efficient data retrieval.
- Optimized LLM performance by implementing GPU-based inference on AWS, reducing response time from 2.5 minutes to 15 seconds, and conducted thorough testing to ensure high accuracy in answering user queries.

Brain Tumor Detection – Undergrad Research (Python, InceptionV3, ResNet, VGG, Xception, YOLOv9)

Jan 2024 – May 2024

- Conducted a comprehensive comparative analysis of advanced machine learning techniques, including InceptionV3, ResNet, VGG, YOLOv9, GELAN, and Xception, for accurate brain tumor classification using MRI scans.
- Developed an ensemble model combining InceptionV3, ResNet, and VGG classifiers, achieving a superior accuracy of 0.956 compared to individual classifiers, demonstrating the power of ensemble learning in medical image analysis.
- Utilized state-of-the-art deep learning architectures, such as YOLOv9 and GELAN-C, and optimized training techniques to enhance brain tumor detection accuracy, contributing to the advancement of medical imaging and diagnosis.

MoodTunes – HackUTD X Golden Hour– Python (CNN, Flask, OpenCV)

September 2023

- Developed and implemented facial emotion recognition models using convolutional neural networks to detect user emotions from video in real time with over 90% accuracy.
- Built a backend system to analyze video from the user webcam, extract facial frames, run recognition models, and return emotion analysis results to the frontend under 100ms per frame.

EXPERIENCE

UTD VINCEP – Vietnamese International Network of Culture, Education, and Friendship - Richardson, TX

President

May 2023 - Present

- Led a 6-member executive team in managing strategic initiatives and programming for a growing 60+ member cultural group, forging 5+ partnerships and orchestrating an 80+ person Vietnamese Lunar New Year gala, boosting event participation by 20%.
- Oversaw prudent utilization of the \$5,000 budget through mission-aligned allocation plans reviewed and approved by the executive committee.

Priority Insurance Agency - Houston, TX

Producer Assistant

August 2018– July 2021

- Drove over \$1.2 million in annual revenue by rapidly onboarding 60+ new customers per month through consultative needs analysis and tailored insurance offerings.
- Boosted customer retention by 15% through delivering premier service, including prompt document processing and proactive policy reviews, ensuring optimal coverage.
- Cut service delays in half by fostering relationships with underwriters and spearheading issue escalation.

TECHNICAL SKILLS

- Programming Language: Java, Python, C/C++, SQL, MySQL, HTML, CSS, JavaScript
- Data Analysis and Visualization: Python, SQL, R, Microsoft Excel, PowerPoint, Tableau, Power BI, matplotlib, Seaborn
- Databases: MySQL, MongoDB, PostgreSQL, Oracle
- Software and Tools: Git, Linux, Visual Studio, PyCharm, Eclipse, Microsoft Excel, Word, PowerPoint.