THIEN NGUYEN

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EDUCATION

The University of Texas at Dallas - Richarson, TX
Master of Science Major in Computer Science *August 2024 – May 2026*

The University of Texas at Dallas - Richarson, 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*

TECHNICAL SKILLS

- Concept: AI, ML, NLP, LLM, API, Database, Cloud Computing, Data Structures
- Programming Language: Java, Python, C/C++, SQL, R, MySQL, HTML, CSS, JavaScript, Typescript
- Databases: MySQL, MongoDB, PostgreSQL, Oracle
- Framework: React, Next.js, Node.js, PyTorch, Flask, Tailwind CSS, React Native
- Software and Tools: Git, Linux, Docker, Firebase, Google Cloud, AWS S3, Microsoft Excel, Word, PowerPoint, Tableau, Power BI

EXPERIENCE

Web Specialist - The Erik Jonsson School of Engineering and Computer Science at UT Dallas - Richardson, TX
Part-time - Jira, WordPress, Vanilla HTML, CSS, JavaScript, Photoshop, Dreamweaver *Jun 2024 - Present*

- Collaborated with 2 supervisors and 3 teammates to manage and enhance 10+ websites for the Erik Jonsson School at UT Dallas
- Created responsive static websites using HTML, CSS, and JavaScript, integrating custom-edited images to overcome WordPress plugin constraints

President - UTD VINCEF – Vietnamese International Network of Culture, Education, and Friendship - Richardson, TX
Volunteer *May 2023 – Jun 2024*

- 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.

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.