

THANG TRUONG

truongthoithang@gmail.com | (832) 298-4421 | [LinkedIn.com/in/truongthoithang](https://www.linkedin.com/in/truongthoithang)

EDUCATION

The University of Texas at Austin

Aug 2021 - May 2025

Bachelor of Science in Informatics with Human-Centered Data Science concentration (GPA: 4.0/4.0)

- **Relevant Courses:** Software Design (Python), Element of Database (SQL), Data Engineering (SQL), Element of Data Science (R), Probability 1, Intro to Computer Science (Java), Statistical Learning Inference (R), Element of Statistics
- **Certificates:** Elements of Computing (CS minor), Applied Statistical Modeling, Statistics and Data Science minor
- **Awards:** University Honors (6 semesters), Winner of HackTX Analog Devices Systems Track, Winner of Congressional App Challenge for Texas 2nd District

RESEARCH EXPERIENCE

Liberal Arts Instructional Technology Services

Austin, TX

Junior Software Developer | Python, R, Laravel PHP, Node JS, Docker, Tableau, WordPress

Aug 2022 – Present

- Enhanced UT Instapoll, an internal service orchestrating class activities for 50,000+ students at UT Austin
- Migrated **Drupal** site to a new **Laravel PHP** infrastructure with two key features of finding and posting internships.
- Revamped three websites, driving a remarkable 10% surge in user engagement rates tracked by **Google Analytics** data

Johns Hopkins Lab

Remote

Research Developer | Android Studio, Dart, Flutter TensorFlow

May 2024 – May 2025

- Customized **ResNet-18** for feature extraction, achieving 97% accuracy with **Random Forest** and **SVM**.
- Applied pruning and 8-bit quantization, reducing model size and inference time while balancing accuracy.
- Integrated **TensorFlow Lite** models into a mobile app, optimizing for efficient on-device inference and real-time predictions.

UT Austin iSchool NLP Research Lab with Professor Abhijit Mishra

Austin, TX

Research Developer | Python, Bash, SeamlessM4T

May 2024 – May 2025

- Co-authored and implemented **PolyverseVLM**, a lightweight multilingual VLM for on-device applications.
- Developed pipelines to translate **89.6GB of data** into 28 languages using the SeamlessM4T model.
- Optimized performance using an 80M SigLIP-based vision encoder and 500M Qwen2 language model.

Claudius Legal Intelligence Inc.

Remote

Software Engineering Intern | Python, Django, Figma

June 2023 – Aug 2023

- Orchestrated the overhaul of four pivotal web pages using **Figma**, handpicking captivating brand identity and visual language
- Executed the designs into functional prototypes seamlessly integrating **Bootstrap** and **Django**
- Streamlined graph implementation time by 25 minutes through the utilization of efficient and polished functions

PROJECTS

RoboDog Therapy – HackTX Analog Devices Winner | Python, Llama 2, OpenCV, DeepFace | [Link](#)

Oct 2023

HackTX Analog Devices First Place

- Led the software development initiative to construct a simulated robotic embedded system therapy dog
- Implemented **OpenCV** for image processing, **Llama2** for text generation and **DeepFace** for emotion detection
- Engineered a resilient **HTTP server** for efficient data transfer of five input values, enabling real-time monitoring of the robotic dog

Personalized Internship Recommendations | Python, TF-IDF, Streamlit, NLTK, Selenium, BeautifulSoup | [Link](#)

May 2023

- Conducted web scraping to gather data from 1800+ job opportunities and used **GitHub CI/CD pipeline** to daily update data
- Applied **NLP** techniques, **TF-IDF** and **cosine similarity**, to align resumes with job descriptions with **80% accuracy rate**
- Connected **600+ users** with tailored internship opportunities, fostering career advancement and professional development

Project Z – Project Posting Full Stack Application | Vue, SQLite, Laravel PHP, HTML, CSS | [Link](#)

March 2023

- Developed the seamless user experience across four pages, including the home, main page, project creation and edit pages
- Constructed a robust backend featuring four protected **API** calls for signing up, logging users, creating and deleting projects
- Established **SQLite database** with three structured tables from scratch to store user and project data

SKILLS

- **Programming languages:** Python, Java, Javascript, TypeScript, R, HTML, CSS, SQL
- **Tools:** Docker, Tableau, Jupyter Notebook, RStudio, Visual Studio Code, Git/GitHub, Stata, MATLAB
- **Frameworks/Libraries:** Bootstrap, React, Vue.js, OpenCV, DeepFace, LLM, Node.js
- **Quantitative Skills:** Agile, DevOps, ETL, OOP, APIs, Hypothesis Testing, Data Storytelling, Version Control
- **Work Eligibility:** Eligible for STEM OPT Visa; requires sponsorship.