

Tri Pham

p.tri@wustl.edu – (785) 331-6501 – github.com/itstreefam

Education

Washington University in Saint Louis | Saint Louis, MO

- Ph.D. student in Computer Science

August 2021 – Present

Washington University in Saint Louis | Saint Louis, MO

- Master of Science in Computer Science May 2024

The University of Kansas | Lawrence, KS

- Bachelor of Science in Computer Science & Minor in Mathematics May 2021

Research Experience

Washington University in Saint Louis | Saint Louis, MO

Graduate Research Assistant, Advisor: Dr. Caitlin Kelleher

Spring 2022 – Present

- Maintaining a code capture framework that utilizes two common development environments (VS Code editor and Chrome web browser)
- Conducted subsequent exploratory user studies to assess the performance of the framework
- The project *Code histories: Documenting development by recording code influences and changes in code* is accepted to The Journal of Computer Languages (published March 2025)
- Investigating context recovery after interruptions using dynamic historical information representations

Graz University of Technology | Graz, Austria

Research Intern, Supervisor: Dr. Gerald Schweiger

Summer 2020

- Researched feature selection and relevant models for building energy consumption prediction
- Tested hyperparameter tuning and implemented visualization for statistical models

Teaching Experience

KU School of Engineering | Lawrence, KS

Supplemental Instructor (Intro to Machine Learning), Supervisor: Dr. David Johnson

August 2020 – May 2021

- Reviewed in-class problems, lectures, and exams before each class session
- Helped 50 students with questions about in-class problems or programming assignments

Projects

interruptionassistant

August 2024 – Present

- Developed a prototype extension for (semi)auto emulation of in-lab studies that involve interruptions. It is designed to help researchers simulate and study the effects of interruptions on developers within the VS Code environment

codeHistories & webActivities

Spring 2022 – Present

- Developed and maintaining a VS Code plugin that captures the code state based on behaviors detected through the development environment
- Developed and maintaining a Chrome extension that enables programmers to quickly set preferences around the windows and tabs that will be tracked

Natural Language Processing

Spring 2024

- Finetuned a Flan-T5-XL model from the paper *InstructBLIP: Towards General-purpose Vision-Language Models with Instruction Tuning* by broadening instruction templates to improve model response to complex natural language tasks and optimizing computational efficiency via Low-Rank Adaptation (LoRA) method

Rapid Prototyping

Fall 2023

- Implemented a chat application where users can have conversation with other users or with a multilingual chat bot (using OpenAI API)

Skills

- Proficient in the use of C++, Python, and JavaScript
- Familiar with Visual Studio, PyCharm, Flask, Firebase, GitHub, and Git