

Thao Hoang

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EDUCATION

Vanderbilt University

2021 – 2025

Bachelor of Science, Majors: Cognitive Studies & Computer Science

GPA: 3.8/4.00

Honors: Peabody Scholar – one of sixteen students to be selected in college-wide honors program.

Relevant courses: Data Structures, Intermediate Software Design, Digital Systems, Calculus

WORK EXPERIENCE

Vanderbilt University Summer Research Program | Data Science Intern

May 2023 – August 2023

+ Awarded \$5000 by Vanderbilt's Data Science Department to develop an automated tool for coding textual data in misinformation research. Final product is presented at school-wide research fair and adopted for use at Vanderbilt's Building Knowledge lab.

Vanderbilt University, Building Knowledge Lab | Research Assistant

Dec 2022 – Present

+ Create surveys with JavaScript on Qualtrics. Monitor survey launches on Cloud Research. Build models in R to clean and analyze said data.
+ Streamline the data/stimuli collection process by developing a web-scraping tool in Python, resulting in a 60% reduction in data gathering time.

Viettel Solutions Corporation, Vietnam | SWE Intern

May – August 2022

+ Developed a prototype for a city demographics database management system to be used by the Ministry of Justice.
+ Created the front-end design for user settings, activity logs, and login functions utilized by 200 government employees. Handled cross-browser compatibility bugs.

Vanderbilt University, Playful Learning Project | Research Assistant

Sep 2022 – Present

+ Reformat GoPros videos from classroom observation, code data using V-Note, perform data verification and maintenance in preparation for analysis. Analyze data using MATLAB.

Computer Science Mentor | Facilitator – Mentor

May 2022 - Present

+ Adopted Girls Who Codes' online resources to develop a three-week Web Development beginner course for Vietnamese middle-schoolers. Facilitated one course for 34 students in July 2022.
+ Successfully pitched curriculum to administrators to create first-of-its-kind club, now offered as an after-school elective at Thang Long middle school.

PROJECTS

Automated Coder for Survey Responses

August 2023

R, Python, MySQL, React, NodeJS, Django

+ An automated tool that expedites textual data coding via dictionary-based text analysis. Enables user authentication and authorization with role-based access control.

SAT Tutoring Services Website

June 2023

MongoDB, Express, React, NodeJS, Bootstrap

+ An interactive website for an SAT tutoring business in Vietnam that supports Facebook Messenger Integration, user authentication, and posting features for website owner. Resulted in 30% increase in inquiries.

TECHNICAL SKILLS

C++, JavaScript, Java, Python, CSS, HTML, React, Firebase, MongoDB, R, MATLAB