Tu Linh Ha Nguyen

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EDUCATION

Virginia Tech **Expected Graduation May 2028**
BS, General Engineering intended: Computer Science
Blacksburg, VA
Relevant Courses: Introduction to Software Design | Introduction to Linear Algebra

SKILLS

- C++, Java, MATLAB, Python (including pandas, matlibplot, and seaborn)
- PyTorch, TensorFlow
- Jinja2, Flask, HTML

EXPERIENCE

OCTOBER 2024

PARTICIPANT, VIRGINIA TECH CODEFEST 2024

- Used pandas, seaborn, and matplotlib to visualize the database about traveling after COVID
- Used HTML, CSS, and Flask to design the front-end of the website
- Used Python to process the data in JSON format and display it on the website
- Used Jinja2 to integrate the front-end and the back-end of the website

AUGUST 2023 – FEBRUARY 2024

ROBOTICS TEAM LEADER, VEXV5 TEAM

- Managed and led a team of 6 members for 6 months to prepare for a robotics competition
- Used Python programming the autonomous part of the robot.
- Pioneered in the use of calculus formula in replacement for the Giro sensor.
- Led meetings diving into the game's objects, targets, and strategies.

APRIL 2023 – OCTOBER 2023

ROBOTICS COMPETITION ORGANIZING COMMITTEE MEMBER, VIETNAM STEM ROBOT COMPETITION 2023

- Designed the programming challenges and rules for the competition.
- Designed programming tasks regarding maze-solving problems with the use of simple maze-solving algorithm (Wall-Following, Pledge, and Trémaux's algorithms).
- Ran Webinars for the competition.
- Evaluated applicants for the first round and participants' works in the final round.

JULY 2023

HACKATHON TEAM LEADER, STEAMHACKS COMPETITION

- Managed and led a team of 4 members during the hackathon period.
- Developed a project in using computer vision to identify fake products.
- Used HTML, CSS, Jinja2, and Flask to design the front-end of the website
- Used Python and a pre-trained classification model from the Teachable Machine website to program the back-end of the website.
- Used ChatGPT API to create a chatbot in the website.

ORGANIZATIONS

Astrorobotics Team August 2024 - Present
Kidscode STEM November 2022 – June 2024
AzureAms Programming Club August 2022 – May 2023

PERSONAL PROJECTS

AI Math Application

- Developed a full-stack application where users can register, login, choose math topics they want to learn, and take practice questions, …
- Utilized PyTorch framework to train a model that bases on grades, exam time, study time, to evaluate student's weaknesses of a specific math topic
- Utilized OpenAI API and Google API for searching supplemental materials for students