Minh N. Tran

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🎓 EDUCATION

The University of Arizona (Tucson, AZ)   Anticipated May 2022
  B.S. in Computer Science | B.A. in Psychology
  Minor in Statistics & Data Science
  GPA: 3.787/4.0

Relevant Coursework

  Computer Science: Object-Oriented Programming and Design, Software Development, Computer Organization, Systems Programming & Unix, Web Programming, Discrete Mathematics, Analysis of Discrete Structures, Algorithms, Geometric Algorithms, Automata, Grammars and Languages
  Psychology: Structure of Mind & Behavior, Psychological Measurements and Statistics, Research Methods in Psychology, Cognitive Development, Cognitive Neuroscience, Positive Psychology, Social Psychology, Health Psychology, Personality
  Statistics & Data Science: Statistical Methods, Statistical Computing, Calculus I/II, Vector Calculus, Linear Algebra, General Chemistry I/II

🧠 RESEARCH EXPERIENCE

Research Assistant   Jan 2021 – present
Compositional Systems Lab, University of Arizona
  • Update a python package for real-time visualization and analysis of CAN data from the DBC files of supported modern vehicles such as Honda Pilot and Toyota Rav4.
  • Create tests to validate vehicle-independent methods to get values from both Toyota and Honda vehicles when these two are driving at the same time in a coordinated way.
  • Build a web application that allows users to associate privacy zones with a vehicle and purge privacy regions from collected data.
  • Member of the Congestion Impacts Reduction via CAV-in-the-loop Lagrangian Energy Smoothing (CIRCLES) project 🔗
  • **Supervisor:** Dr. Jonathan Sprinkle

Research Team Member   Sep 2020 – present
School of Informations, University of Arizona
  • Study how to integrate the lessons designed for children with a positional tracking system of a teachable robot with adaptive cognitive and social supports.
  • Generate ideas, create storylines, and sketch static ChalkTalk backgrounds for the lessons.
  • Design and test background animations, robot's behaviors, audio system, and tracking system
  • Member of the Verticle Integrated Projects under the UArizona Holodeck 🔗
  • **Supervisor:** Dr. Winslow Burleson

💼 WORK EXPERIENCE

Teaching Assistant   Aug 2020 – present
Department of Computer Science, University of Arizona
- Assist in the instruction of the Object-Oriented Programming and Design course, collaborate with the course instructor and other teaching assistants to aid in the development of the course content.
- Provide constructive support for students during weekly office hours, and grade class assignments.

MMFE8 Tester   Nov 2019 – Jan 2021
Elementary Experimental Particle Physics Department
- Perform electronic testing to support the Large Hadron Collider (LHC) at CERN in Switzerland
- Run voltage, art, internal, and external tests on circuit boards for particle detectors

Web Developer/Designer Assistant   Apr 2019 – Aug 2020
Arizona Student Unions
- Implement web architecture, programs, scripts, and design the user interfaces for various websites utilized by the Student Unions and the campus community.

Outreach for Female Students in STEM   Aug 2019 – Dec 2019
Department of Mathematics
- Lead weekly group discussions and meetings about current events and research opportunities
- Encourage female students to stay in STEM majors by providing them with helpful resources

✳️ TECHNICAL SKILL

Programming: Java, Python, C/C++, JavaScript, HTML, CSS, PHP, SQL, Bash, R Programming, Matlab
Software: Git 🔗 , Docker, Bootstrap, React, Agile, Scrum, Trello, Selenium, Microsoft Words, Microsoft Exel, Microsoft PowerPoint, Adobe Photoshop, Adobe Illustrator

🏅 HONORS & AWARDS

The University of Arizona
  Global Wildcat Award | 2018 - 2022
  Academic Year Academic Distinction | 2018 - 2021
  Dean's List With Distinction | Fall 2018
  Dean's List | 2019 - 2021 (all semesters)

💝 SERVICE AND ACTIVITIES

Our Lady of La Vang   Aug 2019 – present
Volunteering Vietnamese Teacher

Ironwood Ridge High School   Jan 2020 – May 2020
Volunteering Mathematic Tutor