

Tristan Daniel

UX/UI DESIGNER AND RESEARCHER

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Passionate developer with a keen Interest in UX/UI research and design; focused on the integration of artificial intelligence solutions.

EXPERIENCE

UX/UI Researcher  Georgia Institute of Technology  Aug. 2024 – Present

- Redesigned CAPTCHA system through UX research, addressing violation of Human Computer Interaction (HCI) principles by incorporating cognitive assessments inspired by developmental psychology, specifically those used to gauge cognitive milestones in toddlers.
- Improved user experience by reducing cognitive load while maintaining security (tested against ChatGPT-4o)
- Achieved an average completion time of 13.07 seconds, outperforming the industry average of 13.6 seconds

Undergraduate Researcher  Troy University  Aug. 2023 – Jan. 2024

- Partnered research with the department of statistics to develop a solid waste prediction model to improve community sustainability.
- Utilized machine learning by sourcing public records from the metro Atlanta area as testable data in a linear regression neural network.

Undergraduate Researcher (REU)  University of Arizona  May. 2023 – Aug. 2023

- Undergraduate research funded by the National Science Foundation (NSF) on autonomous ground vehicles and improving user experience by utilizing machine learning.
- Developed a Deep Learning U-Net neural architecture utilizing Google Colab and Pytorch libraries to produce a state-of-the-art competing lane detection algorithm.
- Utilized You Only Look Once (YOLOv8) object detection model for lane classification and analysis.

CAT Vehicle (Lane Detection)
Robust neural network python program that incorporates machine learning algorithms for lane segmentation. Paired with object detection, we provide a more well-rounded and safer user experience.

SKILLS

Craft



User-Centered Design
Interview Execution
Survey Creation
Qualitative/Quantitative Analysis
Web Development

Tools/Languages



Figma, Android Studio, JavaScript, Java, Python, C++,
HTML/CSS

EDUCATION

Master in Computer Science, Specialization in Interactive Intelligence

 Georgia Institute of Technology
 2024 - Present
Study abroad in Shenzhen, China

B.S. in Computer Science

 Troy University
 2021 - 2024