

Tristan Daniel

Intern Software Developer/Machine Learning Researcher

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GITHUB | LINKEDIN

EDUCATION

KENNESAW STATE UNIVERSITY

SOFTWARE ENGINEERING (STARTED BACHELOR'S OF SCIENCE)

August 2020 - August 2021

Kennesaw, GA

TROY UNIVERSITY

COMPUTER SCIENCE BACHELOR'S OF SCIENCE

August 2021 - May 2024

Troy, AL

EXPERIENCE

UNIVERSITY OF ARIZONA | UNDERGRADUATE RESEARCHER (REU) Tucson, AZ | June 2023 – August 2023

- Research for undergraduates (REU) program on autonomous ground vehicles, controls, communications, vehicular security, machine learning, and algorithms. Worked side-by-side with faculty and graduate research assistants who are experts in these areas.
- Constructed, trained, and tested convolutional neural network architectures in Google Colab and compared quantitative results 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.
- Produced technical report analysis of completed research.

TROY UNIVERSITY | UNDERGRADUATE RESEARCHER

Troy, AL | August 2023 – January 2024

- Partnered with faculty and other undergraduates in the statistics department to develop a solid waste prediction model utilizing machine learning by sourcing public records for testable data in a linear regression neural network.

BEST BUY | TECHNOLOGY SALES ADVISOR

Atlanta, GA | February 2024 – Present

- Proficient in troubleshooting customer device issues to ensure seamless functionality.
- Specialize in providing expertise on laptops, home networking solutions, and mobile devices.
- Drive positive customer experiences through relationship-building, empathy, and personalized problem-solving.

SKILLS

PROGRAMMING LANGUAGES

C++, Java, Python, HTML/CSS

LIBRARIES/Frameworks

Pytorch, Tensorflow, NumPy, YOLOv8

TOOLS / PLATFORMS

Google Colab, Github Repositories, VSCode, Machine Learning, IT Competency

PROJECTS / OPEN-SOURCE

AI CHATBOT (IVERSON) | [LINK](#)

TensorFlow, JSON

- Python program that utilizes TensorFlow to train a custom trained chatbot to respond to user request through static responses.

CAT VEHICLE (LANE DETECTION) | [LINK](#)

Pytorch, Google Colab, NumPy, YOLOv8

- Robust neural network python program that incorporates machine learning algorithms for lane segmentation. Paired with object detection, we provide a more well-rounded description of a driving environment.