

Trevor Chartier

Fort Collins, Colorado

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Education

Colorado State University	August 2022 - December 2025
<i>B.S. in Computer Science (Machine Learning (ML) & Artificial Intelligence (AI) Concentration)</i>	GPA: 4.0
<i>Minor in Data Science</i>	
<ul style="list-style-type: none">Coursework: Embedded Systems & ML, Distributed Systems, Operating Systems, Bayesian Statistics, AIRamRobotics Software Team Lead, Re-founded Fourth Paradigm Data Science & Machine Learning Club	
Prospective M.S. Student (Applications Submitted)	August 2026

Professional Experience

Robot Demo Developer CSU HAPI Lab (Dr. Sarath Sreedharan)	August 2025 – Present
<ul style="list-style-type: none">Developed and tested ROS-based perception and planning on a Fetch robot, using simulation in Gazebo to validate reliable tic-tac-toe move execution.	
Software Engineer: AI, Intern Empower, Innovation Lab	May 2025 – August 2025
<ul style="list-style-type: none">Designed and implemented a LangGraph-based AI Agent to automate the intake request process for the lab.	
ML Researcher CSU Computer Vision Lab (Dr. Nathaniel Blanchard)	September 2023 – May 2025
<ul style="list-style-type: none">Developed an ML pipeline to detect user familiarity from raw eye-gaze data, hitting a global benchmark F1 score of 0.66 for this novel task and delivering a reusable platform for the lab that reduced hyperparameter-tuning time by 3x.Presented data-driven findings to gain recognition as the best paper/presentation at the international conference.	

Skills

Systems & Robotics:	<i>Python, C++, Java, Linux, ROS, Gazebo, RViz, Git, Raspberry Pi</i>
Data & ML:	<i>SQL, OpenCV, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Spark, Hadoop</i>

Selected Projects | [View All on GitHub](#)

Autonomous Robotic Car	February – May 2025
<ul style="list-style-type: none">Engineered an autonomous robotic car using real-time computer vision and precision PID feedback control to follow colored tape lines with sub-50ms responsiveness. [View on GitHub]	
<ul style="list-style-type: none">Implemented Monocular Visual Odometry, comparing traditional SIFT feature-based methods with the end-to-end deep learning approach, Deep-VO. [View on GitHub]	
<ul style="list-style-type: none">Trained a deep neural network for line following via behavior cloning and used expert intervention learning to correct distribution shift, enabling recovery from challenging states. [View on GitHub]	

Selected Publications | [View All](#)

- Using Eye Gaze to Differentiate Internal Feelings of Familiarity in Virtual Reality Environments: Challenges and Opportunities, Annual Review of Cybertherapy and Telemedicine, 2024. [[Link](#)] ****Cyber Student Award**
Trevor Chartier, I Castillion, V Venkatesha, AM Cleary, NT Blanchard
- Automatically Identifying the Human Sense of Familiarity Using Eye Gaze Features, HCII, 2024. [[Link](#)]
I Castillion, **Trevor Chartier**, V Venkatesha, NS Okada, A Davis, AM Cleary, NT Blanchard

****** Received **Cyber Student Award** at CyPsy International Conference for outstanding research paper and presentation.