

Nathaniel Christie

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Education

The University of Illinois Urbana-Champaign

Masters of Engineering in Autonomy and Robotics

GPA: 3.7

Relevant coursework: Computer Vision, Embedded Systems, Autonomous Vehicle System Engineering

Champaign, IL
Expected Dec 2026

The University of Texas at Dallas

Bachelor of Science in Computer Science

GPA: 3.3

Relevant coursework: Database Management, Machine Learning, AI, Advanced Algorithmic Analysis, Data Structures, Software Engineering, Cybersecurity

Richardson, TX
May 2025

Experience

Computer Assistant

The University of Texas at Dallas Office of Information Technology

- Delivered expert technical assistance for NetID setups, Wi-Fi troubleshooting, DUO MFA, and malware scanning, facilitating secure access to university systems
- Applied Computer Science skills to deliver hands-on technical support, manage equipment distribution, and support 100 device setups per semester.
- Provided technical support and guidance to 150+ students, enhancing their access to academic resources at a Tier 1 research institution

Richardson, TX
May 2024 - May 2025

University Projects

Phenotyping System for Efficient User-centered Detection On AMIGA (WIP)

- Designing a robotic plant phenotyping system that integrates multispectral sensing and machine learning techniques to identify crop and weed species and evaluate plant health metrics for precision agriculture applications.

Summer 2026

Discerning Optical Gesture Guidance Integration System On Biped

- An embedded systems project on Biped, a two-wheeled, self balancing robot, implementing a CV gesture control system, allowing the user to issue commands to the robot via an onboard camera reading hand gestures.

Spring 2026

COLMAP to NeRF to Mesh Pipeline

- A computer vision photogrammetry project which utilized COLMAP and nerfstudio to analyze videos of scenes and objects and export a 3D mesh approximation for use in physics engines using 3D Gaussian splats.

Spring 2026

Skills

Programming & Software Development: Java, Python, C++, JavaScript, HTML, CSS, Arduino programming, software training and development

Data Science, AI & Computer Vision: Data analysis with NumPy, deep learning with PyTorch, MediaPipe, OpenCV

Web & Database Technologies: React, Node.js, Next.js, MySQL, Google Cloud SQL, Supabase

Systems, Robotics & Engineering Tools : Linux/Unix systems, Robot Operating System (ROS), Unity, Microsoft Office Suite