

# Sri Anumakonda

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## EDUCATION

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### Carnegie Mellon University

*B.S. Robotics*

Pittsburgh, PA

Aug. 2024 – May 2028

## EXPERIENCE

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### Undergraduate Researcher

*Pathak Research Group*

Jan. 2025 – Present

Pittsburgh, PA

- Working on RGB distillation for dexterous manipulation policies! More updates soon
- Implemented domain randomization + automatic domain randomization to the LEAP hand, testing in tasks such as cube reorientation and general in hand reorientation tasks in IsaacLab
- Added ROS2 support for LEAP Hand z-axis reorientation to allow for robust sim2real performance in IsaacGym
- Check out our [open-source code](#) where we added support for the reorientation task in IsaacLab!

### Student Researcher

*University of Texas-Austin*

Jan. 2024 – Jun. 2024

- Researched vision-based SLAM systems with a PhD student to improve long-term data association performance

### Student Researcher

*University of Illinois Urbana-Champaign*

Aug. 2023 – Nov. 2023

- Generative modelling research with to create adversarial systems to train more for vision-based driving policies

## PROJECTS

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### CUDA-Optimized Semantic Segmentation for Autonomous Vehicles | [Github](#)

Feb. 2023 – May 2023

- Creating a U-Net-like architecture with custom loss functions to perform semantic segmentation on the CityScapes dataset with PyTorch's LibTorch C++ API and custom preprocessing

### End2End Learning for Lateral Control | [Github](#)

Nov. 2021 – Jan. 2022

- Implemented NVIDIA's [End2End Learning Paper from scratch](#) to create a network for lateral control of autonomous vehicles with custom preprocessing and Canny edge detection

### DataGAN: Leveraging Synthetic Data for Self-Driving Vehicles | [Github](#) [Medium](#)

Sept. 2021 – Nov. 2021

- Used DC-GANs (FCNs) to take in input images of road scenes from the Cityscapes dataset and understands in-depth features of what is a realistic scene image, following an approach similar to BigGAN

## AWARDS

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- HackPrinceton 2024 Healthcare Track Winner and Overall Finalist - created [Bartimaeus: Stealing Vision Back](#)
- HackCMU 2024 Overall Winner - created [DebateZero: The Future of Debate Analysis](#)
- Masason Foundation Scholar - one of the 34 members selected (2% acceptance rate) of the 2022 cohort

## MEDIA

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- Austin Robotics and AI: [Why World Models Are Resurging in Robotics](#), [tweet](#)
- Austin Computer Vision Meetup (sponsored by Voxel51): [Scaling Autonomous Vehicles with End2end Learning, recap article](#)
- SiriusXM: [Meet 3 Teens in Canada Who are Changing and Impacting the World With Tech](#)
- The Logic: [The Young Canadian innovators getting a boost from Softbank's Son](#)
- David Silver: [Sri Builds a Real Self-Driving Car!](#)
- Udacity: [Autonomous Tech Dreams of the 14-year-old Sri Anumakonda](#), [accompanying article](#)

## TECHNICAL SKILLS

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**Interests:** Simulation Training, Dexterous Manipulation, Sim-To-Real, Computer Vision, Autonomous Vehicles, Deep Reinforcement Learning

**Languages:** Python, C++, Java, HTML/CSS, JavaScript, CUDA, Git

**Frameworks:** PyTorch, Tensorflow, Keras, OpenCV, NumPy, ROS, ROS2, IsaacLab