

Shrish Choudhary

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Education

Massachusetts Institute of Technology

B.S. Computer Science and Engineering; B.S. Management

M.S. Computer Science and Engineering

GPA: 4.7/5.0

Cambridge, MA

Expected June 2027

Expected June 2028

Coursework: Robotic Manipulation, Machine Learning, Computer Vision, Algorithms, Systems, Operating Systems

Experience

Multiply Labs

San Francisco, CA

Robotics Software Intern

May 2026 – Present

- Fine-tuned and deployed NVIDIA GR00T flow-matching VLAs for bimanual manipulation on a Unitree G1-D, integrating 3-camera vision, proprioception, asynchronous action-chunk inference, and closed-loop execution.
- Built an end-to-end G1-D autonomy stack integrating VLA manipulation, SLAM, A* navigation, LiDAR failsafes, and a MuJoCo digital twin for autonomous pick-carry-place.
- Trained force-reactive locomotion policies for a 29-DoF Unitree G1 using PPO and privileged simulation supervision, learning to infer unmeasured hand wrenches from proprioception.
- Developed single-leg whole-body control for occupied-hand pedipulation, achieving 99.3% deterministic survival with zero torque saturation and evaluating robustness under held-out dynamics perturbations.

eBay

San Jose, CA

Machine Learning Intern, Payments

May 2025 – Aug. 2025

- Deployed a payment-personalization ML pipeline across the US, UK, and Germany, increasing checkout conversion by 22%, and developed adaptive policy-learning methods for changing payment behavior.

Research

Improbable AI Lab

MIT

Undergraduate Researcher

Aug. 2025 – Present

- Developed a simulation framework for active tactile object recognition, using a robotic hand to explore unseen objects through contact-driven joint motions in Isaac Lab.
- Trained a shape discriminator whose latent predictions conditioned a PPO actor, guiding information-seeking exploration across four object classes.

Theoretical Physics Laboratory

MIT

Undergraduate Researcher – Head Engineer

Jun. 2024 – Jun. 2025

- Developed closed-loop alignment and autonomous self-recovery methods achieving 0.1 mm and 0.1° assembly precision.
- Built an optical assembly system integrating stereo vision, LiDAR-based 6D pose estimation, and 7-DoF precision manipulation.

MIT Media Lab

MIT

Undergraduate Researcher

Nov. 2023 – May 2024

- Compressed surgical-wound vision models using pruning and quantization for real-time mobile inference with Harvard Medical School.

Publications & Patents

- **Second Author**, “[AI-Driven Robotics for Optics](#),” *Science Advances*, 2026; presented at CLEO 2025.
- **Second Author**, “[A Framework for Closed-Loop Robotic Assembly, Alignment and Self-Recovery of Precision Optical Systems](#),” accepted to IEEE/RSJ IROS, 2026.
- **Co-Inventor**, patent for autonomous robotic assembly and alignment of precision optical systems.

Projects

YC IAP Grant Recipient

Founder

Dec. 2025 – Jan. 2026

- Built **Reflex**, an AI-guided robotics RL platform for visual policy analysis, reward design, and experiment iteration, **Mirim**, a product-to-3D vision pipeline, and **Skeye**, a YOLO-based safety system achieving 50 Hz on-device hazard detection.

Smartform

Founder

Jan. 2025 – Aug. 2025

- Built a computer-vision fitness platform reaching 200+ users and receiving accelerator funding.

Skills

Learning: PyTorch, Reinforcement Learning, PPO, Imitation Learning, VLAs, Flow Matching

Robotics: ROS 2, MuJoCo, Isaac Lab, cuMotion, SLAM, Motion Planning