


Ryan Smith

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 [PY44N](#)
 [Ryan Smith](#)

Experience

Brown University Intelligent Robot Lab
Lab Member
<http://irl.cs.brown.edu/>

August 2023 - Present
Providence, RI

- Leading project to design and implement a Visual-Language Model (VLM) to translate task-based videos into Object-Level Planning (OLP) data
- Enables robot training based on video tutorials, independent of robot type
- First author on upcoming publication

Sea12 Technical Solutions
Forward Deployed Engineer
<https://www.sea12.co/>

May 2025 - August 2025
New York, NY

- Led a team building Orchestrator, designed and implemented highly scalable architecture capable of handling millions of requests per day
- Served in forward deployed engineer role, met with C-suite executives at billion-dollar companies to understand business needs and offer custom solutions

Northwell Health, 3D Design and Innovation Lab
Research Intern
<https://www.northwell.edu/3d-design-innovation>

September 2022 - June 2025
New Hyde Park, NY

- Developed an application that will be used to track the level of oxygen in the portable tanks used for patient transport, and is currently being evaluated for use in the health system
- Used computer numerical control (CNC) milling to fabricate cartilage grafts for surgical reconstruction
- First author on a scientific abstract presented at national meeting

Lemelson-MIT InvenTeam
Founder & Team President
<https://lemelson.mit.edu/teams/cold-spring-harbor-juniorsenior-inventeam>

May 2023 - June 2025
Cold Spring Harbor, NY

- Led one of eight teams in the nation selected for \$7,500 research grant and only team to win Microsoft Make What's Next grant
- Used 3D printing and CAD to create a cost-effective, environmentally friendly, scalable solution to tick mitigation
- Presented prototype at MIT in June 2024

Education

Brown University
Computer Science

2025 - 2029
Bachelor of Science

Activities: Member, Brown Space Engineering; Member, Brown Robotics

Cold Spring Harbor High School
4.0 UW/4.28 W GPA

September 2021 - June 2025

Academics: Validictorian; 17 AP exams; 36 ACT

Activies: Team Captain, Head of Code and Fundraising, CSH Cyberhawks Robotic team; Editor, The Harbor View School Newspaper; President, Computer Science Club; Founder and President, Engineering Club

Skills

Programming Languages

Go, Javascript, Typescript, Python, Rust, Kotlin, C++, C, C#, Java, Dart, Lua

Tools

PyTorch, Linux, Flutter, SQL, Nix