


# Ryan Smith

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 [Ryan Smith](#)

## Experience

### Brown University Intelligent Robot Lab

August 2023 - Present

Lab Member

Providence, RI

🌐 <http://irl.cs.brown.edu/>

- 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 Technologies

May 2025 - August 2025

Forward Deployed Engineer

New York, NY

🌐 <https://www.sea12.co/>

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

### Northwell Health, 3D Design and Innovation Lab

September 2022 - June 2025

Research Intern

New Hyde Park, NY

🌐 <https://www.northwell.edu/3d-design-innovation>

- 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

May 2023 - June 2025

Founder & Team President

Cold Spring Harbor, NY

🌐 <https://lemelson.mit.edu/teams/cold-spring-harbor-juniorsenior-inventeam>

- Led team that received \$50k+ in grants from MIT and Microsoft
- Developed modern, environmentally friendly, scalable tick mitigation technologies
- Presented prototype at MIT in June 2024

## Education

### Brown University

2025 - 2029

Bachelor of Science, Computer Science

**Activities:** Member, Brown Space Engineering; Member, Brown Robotics; Member, Brown Formula Racing

### Cold Spring Harbor High School

September 2021 - June 2025

**Academics:** Valedictorian; 17 AP exams

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

## Skills

### Programming Languages

### Tools

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

PyTorch, Linux, Flutter, SQL, Nix