Ryan Smith

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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 Robotic 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