

# Logan Endes

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github.com/log45

## Experience

- Jan 2024 – Present **AI Software Engineering Co-op**, *Ecolab AI Accelerator Team*, Saint Paul, MN
- Pioneered the use of **Computer Vision** AI models like **YOLOv9** to increase the efficiency of kitchens.
  - Collaborated with engineers from Microsoft as part of Ecolab's new AI Accelerator Team.
- Aug 2023 – Dec 2023 **Student Lab Instructor**, *RIT Department of Computer Science*, Rochester, NY
- Aided students through a lab section each week in learning Computer Science concepts and applying them to different problems using **Python**.
  - Tutored students in **Python** and **Java** problems in the CS tutoring center each week.
- June 2023 – Aug 2023 **AI Research Intern**, *Brookhaven National Laboratory*, Upton, NY
- Researched the use of **prompt engineering Large Language Models** to make the process of researching medical isotopes more efficient using **PyTorch** and **Hugging Face's Transformers** library, with experiments performed in **Jupyter Notebooks**.
  - Found that models like LLAMA-2 were able to discern elements necessary in chemical separations, but that more research must be done for discerning specific isotopes needed.

## Projects

### **Fencing Judge AI**, *log45/Fencing-Judge-AI*, *Personal Project*

- Researching the best **PyTorch** model for CV of live-video feed and training an AI model to accurately score Saber fencing bouts.

### **AI Notetaker**, *log45/Notetaker*, *Personal Project*

- Developing a web application to transcribe recordings and create notes with large language models.

### **Keyboard Design**, *log45/keyboard-design*, *Personal Project*

- Designed a keyboard PCB using KiCad to be hot-swappable and programmable powered by a Raspberry Pi Pico.

## Skills

Languages	Python, Java, LaTeX, Go, C#, C/C++, SQL, Assembly, Bash
Libraries	Transformers, PyTorch, Tkinter, NumPy, OpenAI, Ultralytics, Supervision
Tools	Azure, Azure ML, Anaconda, Git, Docker, Jupyter Notebook, VSCode, JetBrains IDEs, KiCad
Fluencies	English (Native), Japanese (Beginner)

## Education

**Rochester Institute of Technology**, Rochester, NY

**B.S./M.S. Computer Science**

**B.S. Japanese Language and Culture**

Expected graduation: May 2026 B.S. / May 2027 M.S.

Dean's List: Fall 2022, Spring 2023, Fall 2023, Presidential Scholar, Performing Arts Scholar

## Extracurriculars & Leadership

- Aug 2022 – Present **Executive Board: R&D Director, Member**, *RIT Computer Science House*
- Organizing weekly meetings, technical seminars, hackathons, and enabling members to develop major technical projects throughout the year.
  - Living in a learning community emphasizing hands-on learning and a strong social atmosphere while participating in member-led seminars and meeting a major project requirement.
- Aug 2022 – Present **Member**, *RIT Fencing Club*
- Participating in weekly fencing practices and open-bouting sessions, fencing saber.
- June 2017 – Jan 2022 **Drum Major, Brass Captain, Member**, *Pennsauken Apache Marching Band*
- Developed skills in teamwork, discipline, and leadership while playing as part of a close-knit ensemble, leading rehearsals, and instructing students in marching technique.
- June 2021 **State Assemblyman**, *American Legion Jersey Boys State*
- Simulated the creation of a 51st state with 500 student leaders from across New Jersey in order to solve problems in respective cities to learn the importance of discipline, respect, teamwork, and the political process.