

YUTO MARUYAMA

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Science
Major in Computer Science

Chicago, IL
Expected May 2026

ADDITIONAL

Technical Skills: Java, Ruby, SQL, Javascript, HTML/CSS, Python, Numpy, Matplot, Swift, Linux, Adobe(Effect, Premiere Pro)

Languages: Fluent in Japanese, English

Awards: Finalist Career Koushien(business competition) out of 8000 participants (2020);

PROFESSIONAL EXPERIENCE

Dynamic MRI and CT Segmentation AI characterization Approach - Illinois Institute of Technology Chicago, IL
Researcher Jan 2025 – Present

- Developing an AI-powered segmentation pipeline for MRI and CT scans, integrating ITK-Snap for precise manual segmentation and PyTorch for deep learning-based automated analysis. Focused on improving accuracy in implant detection and medical imaging diagnostics through advanced machine learning techniques
- Optimized segmentation accuracy by integrating transfer learning and data augmentation techniques, improving model generalization across diverse medical imaging datasets.
- Processed and visualized 500+ MRI scans using SimpleITK and Matplotlib, ensuring proper handling of voxel spacing and geometric transformations.

GA technology - Internship

Software-Engineer Tokyo, JP
June 2024 – July 2024

- Working on a team attentively consider each member's perspective and collaboratively work towards innovative solutions that incorporate diverse viewpoints, coordinate a program on Shell script for Ruby development process, making file handling and debugging more efficient.. Ultimately leading to well-informed and mutually beneficial decisions.

PROJECTS

Music Share Web Service Aug 2022

- Utilizing YouTube API and Spotify API and creating a dynamic music sharing platform enabling users to share and discover music preferences collaboratively. Integrated real-time online music experiences to enhance user engagement and interaction within the community.
- Enhanced website usability by leading detailed user interaction tests, which identified key areas for improvement. Implemented machine-readable instructions to streamline navigation and designed a more intuitive user interface, significantly improving the overall user experience.

Startup project - Tokyo Electric Power Company Nov 2022

- Developed a sustainable energy system utilizing ethanol to convert waste into electric power. Presented the concept using PowerPoint and refined the idea by collaborating with experts in biomass power generation.
- Designed a prototype of a biomass-powered dustbin using Adobe and Excel, enabling electricity generation from waste disposal.

ACTIVITIES

IIT Soccer Club

President Chicago, IL
Sep 2023 – Present

- Recognizing the importance of physical activity in a tech-focused academic environment, organizing soccer events that provide students with an opportunity to refresh their minds, enhance cognitive function, and build meaningful connections.
- Collaborating with university departments and external organizations to secure sponsorships, field reservations, and funding opportunities to enhance club resources.

Triangle Fraternity

Constituent Communication Chicago, IL
Sep 2023 – Present

- Organizing professional networking events with soccer clubs that connect students with industry professionals, fostering opportunities for career development, mentorship, and collaboration.