

Jo Kozen

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SUMMARY

As a first-year master's student pursuing computer science, I am specializing in intelligent robot using digital twin and world models. As a full-stack engineer, I have worked globally across a broad spectrum of technologies—from hardware to cutting-edge AI, front-end to back-end development, and design. My background includes two years of experience at various companies and four years dedicated to space development projects. From May 2025 to March 2026, I am visiting WINLAB, Rutgers University as a research intern.

SKILLS

- **Programming:** C++, Python, Rust, Java, TypeScript, JavaScript
- **Technologies:** OpenCV, TensorFlow, React, Next.js, Linux, ROS, Arduino, Omniverse, Git, Docker, Fusion 360, KiCAD
- **Design:** Figma, Illustrator, Photoshop, Premiere Pro
- **Languages:** Japanese (native), English (Business)

EDUCATION

Master of Computer Science Apr 2025 - Mar 2027 (Expected)
Shibaura Institute of Technology

- Research on intelligent system that use World Models, a digital twin and intelligent robots.
- Academics: GPA:3.9

Bachelor of Computer Science Apr 2021 - Mar 2025
Shibaura Institute of Technology

- Researched on autonomous control of intelligent robots for digital twin construction.
- Contributor, ITU-T Standardization, Study Group 21, Proposal to add sensors in infrastructure for surveillance.
- Academics: GPA:4.0, Finished in 3rd place in grade

EXPERIENCE

BabyJam, Inc., Intern Jul 2025 - Present

- As a full-stack engineer, developing a SaaS platform that integrates AI tools for artists, providing a unified environment for creative workflows.
- Skills: TypeScript, Next.js, Supabase

WINLAB, Rutgers University, Research Intern May 2025 - Present

- Engaged in research on autonomous robotic systems that utilize learned World Models for predictive communication and control. Leveraging digital twin technology and multi-agent simulation to study how intelligent agents adapt to dynamic, networked environments.

Hyper Digital Twins Co., Ltd., Associate Engineering Lead Apr 2024 - Present

- Developing an autonomous driving infrastructure system for micro-mobility using a digital twin with sensor networks.
- Skills: Python, C++, ROS2, Linux, Autoware

Yukai Engineering Inc., Intern Aug 2024 - Apr 2025

- Developed firmware, boards, and LLM models for the robot that makes the world joyful.
- Skills: C++, Python, Arduino, KiCAD, Fusion 360

Shibaura Aerospace Exploration Society, Head of Satellite Division, PM Apr 2021 - Sep 2024

- Developed a satellite and participated in launch experiments at JAXA bases and in the U.S.A.
- Skills: C++, Python, Arduino, ROS2, OpenCV, Linux, Tensorflow, KiCAD, Fusion 360

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| Usage Inc., Intern | Sep 2023 - Feb 2024 |
| <ul style="list-style-type: none"> Developed an application to retrieve images based on image similarity using RAG and foundation models. Skills: Python, LangChain, MongoDB, Pinecone | |
| Rakuten Group, Inc., Intern | Aug 2023 - Aug 2023 |
| <ul style="list-style-type: none"> Developed a creative web application on the theme of food loss that enables the reuse of excessively discarded products. Skills: JavaScript, React, Python, Firebase | |
| Ielove Group, Inc., Intern | Jun 2023 - Nov 2023 |
| <ul style="list-style-type: none"> Developed a SaaS for real estate in a middle venture. Skills: PHP, ZendFramework | |
| Next Generation Leadership Program | Aug 2018 - Aug 2018 |
| Harvard University | |
| <ul style="list-style-type: none"> Learned the qualities necessary to be a leader. | |

AWARD

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| NASA Space Apps Challenge 2024, Tokyo Venue Special Award | Oct 2024 |
| I created a web application that visualizes the relationship between GHG emission factors and global warming. | |
| Tanegashima Rocket Contest 2024, Original Mission, CanSat, 3rd place | Mar 2024 |
| The project simulated sample collection and controlled multiple units with ROS and markers. | |
| Builder Weekend 2024, Rebase Prized | Mar 2024 |
| We developed AI-coustic, an application that generates images from text and creates music from the space of those images. | |

LICENSES & CERTIFICATIONS

- TOEIC Listening & Reading Score 860
- Applied Information Technology Engineer Examination
- Fundamental Information Technology Engineer Examination