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:4.0

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

Usagee Inc., Intern Sep 2023 - Feb 2024

- 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

- 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

- Developed a SaaS for real estate in a middle venture.
- Skills: PHP, ZendFramework

Next Generation Leadership Program Aug 2018 - Aug 2018

Harvard University

- Learned the qualities necessary to be a leader.

AWARD

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
- Driver's License, Class 1 (Japan)