Basic Information (as of February 2026)

Name: Kento Miyazawa

Affiliation: Graduate School of Science and Engineering, Chiba University

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Education

Date	
Apr 2017	Entered Azabu Senior High School
Mar 2020	Graduated from Azabu Senior High School
Apr 2021	Entered Information and Computer Engineering Course, Department of Integrated Science and Engineering, Faculty of Engineering, Chiba University
Mar 2025	Graduated from Information and Computer Engineering Course, Department of Integrated Science and Engineering, Faculty of Engineering, Chiba University
Apr 2025	Entered Master's Program (Remote Sensing Course), Department of Earth Science, Graduate School of Science and Engineering, Chiba University
Mar 2027	Expected to graduate from the Master's Program (Remote Sensing Course), Department of Earth Science, Graduate School of Science and Engineering, Chiba University

Skills

Languages

- Japanese: Native
- English: Business proficiency (TOEIC L&R 885, TOEFL iBT 60)
- Spanish: Conversational proficiency

Programming Languages

- Python: Applied in graduate research
- PHP: Applied in part-time web development projects
- C++: Applied in university coursework and competitive programming

Frameworks & Libraries

- PyTorch: Applied in AI weather forecasting research
- Laravel: Applied in PHP-based part-time web development projects
- Jekyll: Used to build and maintain this portfolio website

Infrastructure & Tools

- Docker: Used to establish collaborative development environments for web projects
- MySQL: Used for database management in web applications
- Linux (Ubuntu): Used for research server operations
- GitHub: Used for collaborative development and source code management MyAccount
- GitHub Actions: Used for CI/CD pipeline operation for this portfolio website

Licenses & Certifications

Date

Oct 2021	Ordinary Driver’s License (Japan)
Dec 2022	Japan Chamber of Commerce and Industry Bookkeeping Test, Grade 3
Apr 2023	TOEIC Listening & Reading Test 885
Jan 2024	TOEFL iBT 60
Jul 2024	Applied Information Technology Engineer Examination (AP), Japan

Research Activities

Research Topic

AI weather forecasting using deep learning methods and related applications

Research Overview

Conventional weather forecasting generally requires time-intensive physical simulations executed on large-scale supercomputing clusters. To address this limitation, I conduct research on high-speed, high-accuracy AI weather forecasting using deep learning methods with reduced computational cost.

In recent work, I have also investigated methods for analyzing meteorological factors relevant to weather control and estimating control inputs by leveraging adversarial attack techniques.

These studies are expected to contribute to improved AI weather prediction accuracy and to the advancement of weather control technologies.

Research Achievements

Date	
Sep 2025	A peer-reviewed paper titled “Precipitation Forecasting Using a Swin-Unet Deep Learning Model and MSM Analysis Values” was accepted by the JSCE Journal
Dec 2025	Presented the paper at the 70th Hydraulic Engineering Conference
Feb 2026	The paper was published in the JSCE Journal, Vol. 82, No. 16 (Special Issue: Hydraulic Engineering) Paper Link

Practical IT Work Experience

Oct 2023 - Present: Part-time at 4leaf Clover Co., Ltd.

- Serving as a student engineer, engaged in software development and testing tasks
- Key contributions
    - Developed and operated an entry management system for joint company information sessions System Website
        - Digitized paper-based management workflows for participating companies and students
        - Improved reception efficiency at company booths through smartphone QR code scanning
        - Enabled participating companies to retrieve visitor data efficiently through export functions
        - Achieved two years of continuous operation; recently used by approximately 150 companies and 500 students
    - Developed an AI-OCR-based automated order form reading and product label printing system
        - Built a system that recognizes product names and quantities from order form images and automatically prints product labels
        - Automated manual data entry and label printer operations
    - Participated in the development of an internal system for a parts manufacturing company

        - Contributed to a project covering sales, production, and inventory management
    - Developing an AI chatbot for generating RPA scenario templates
        - RPA (Robotic Process Automation) refers to software robots that automate routine tasks on a PC
        - Currently implementing a chatbot to support the creation of RPA scenario templates