

# RYOZO MASUKAWA

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## Education

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**University of California, Irvine**

**September 2023 – June 2025**

*Master of Science in Computer Science*

*GPA: N/A*

**Meiji University, Tokyo**

**April 2018 – March 2023**

*Bachelor of Science in Computer Science*

*GPA: 3.86/4*

Advisor : Tomohiro Takagi at Web Science Laboratory (WSL)

**University of California, Berkeley**

**June 2019 – August 2019**

*Summer Sessions*

*GPA: 4.0/4*

## Award

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**Academic Excellence Award at Meiji University**

**March 26, 2023**

*Awarded for a student who ranked 1st out of undergraduate class*

## Technical Skills

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**Languages/Database:** Python (proficient), C (proficient), C++(proficient), Java(prior experience), Kotlin(prior experience), Verilog HDL (prior experience), SQL (prior experience), JavaScript (prior experience)

**Web Technologies:** Django, Django REST Framework, React.js, Railway, firebase

**Software & Tools:** Docker, Microsoft Office, GitHub, T<sub>E</sub>X

## Projects

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**Full-time Research with airCloset at WSL | *Pytorch, GAN, CLIP, VL models*** [Git](#)

**April 2022 – March 2023**

- Served as a project leader of a 5 person team
- Developed deep learning models for clothing design generation according to the fashion trend
- Implemented the entire architecture of trend forecasting module and GAN-based generative model
- Automated the order process and reduced the workload of fashion item buyers by 50%
- Published 2 papers

**Part-time Research with LAC at WSL | *Pytorch, NLP, Transformer, huggingface*** [Git](#)

**Sept 2022 – August 2023**

- Surveyed GAN-based time-series tabular data generation for financial fraud detection
- Implemented GPT-based table data generation model
- Implemented Transformer-based System Log summarization Model inspired by Unilog and chatGPT API

**Team web app development | *Django REST framework & React*** [Git\(team\)](#) [link\(frontend\)](#)

**April 2023 - July 2023**

- Developed a restaurant recommendation web app using chatGPT API with Web Science Laboratory members
- Set up an uniform development environment using Docker
- Deployed the app using railway and firebase
- Implemented both basic frontend and backend source codes

**Android App Development for Ningyocho Shopping Board Event | *Kotlin, realm*** [Git](#)

**April 2020 - July 2023**

- Developed and still maintaining an Android application to support annual event in Ningyocho Town
- Automated sales calculation by using database and created a simple game as a substitute of the event
- Halved the time for calculating total sales from the past

## Publications

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Sayaka Aoba, Yugen Sato, **Ryozo Masukawa**, Shosuke Haji, Makoto Sato, Taiga Matsui, Keita Ishikawa, Tomohiro Takagi **Comment generation using a large language model for fashion item recommendation**, Preprint to MMAAsia 2023 | [link](#)

**Ryozo Masukawa**, Sayaka Aoba, Yugen Sato, Shosuke Haji, Makoto Sato, Taiga Matsui, Keita Ishikawa, Tomohiro Takagi **Trend Analysis-Based Fashion Image Generation**, JSAI 2023 | [link](#)

**Ryozo Masukawa**, Shosuke Haji, Tomohiro Takagi, Taiga Matsui, Keita Ishikawa, Masane Fuchi, Kazuki Yamaji, **GAN-based Detailed Clothing Generation System**, The 17th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2022) | [link](#)

## Extracurricular works and Internships

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### Cross Cat Data Scientist Team Hackathon

August 2023

*Intern*

*Tokyo*

- Analyzed company's attendance data and proposed a novel functionality of management system using Python and statistical hypothesis testing (t-test, chi-squared)
- **Awarded 1st prize**
- Collaborated with a team of three data scientists

### Integrated Quality(IQ), a Computer Programming Club

Sept 2019 – March 2023

*Accountant officer*

*Tokyo*

- Taught underclassmen basic concepts of Computer Science in C language
- Served as accountant officer in final year

### Meiji University Study Abroad Advisor

April 2021 - August 2022

*President*

*Tokyo*

- Supported underclassmen willing to study abroad
- Served as a **president** of all advisors in 2022

### Nomura Research Institute(NRI) Internship

August 2021

*Intern*

*Tokyo*

- Designed an architecture of an automated secure access log transmission system to the client companies for governmental scrutiny

### Japan Tata Consultancy Services Internship

Sept 2021

*Intern*

*Tokyo*

- Developed a Support Vector Machine based machine learning model for subway passenger population prediction
- **Awarded 1st prize in terms of the model's accuracy**

### SmartTrade Internship

February 2020 - April 2020

*Intern*

*Tokyo*

- Worked in a project to develop stock price forecasting algorithm using machine learning
- Aborted Due to the COVID-19 Pandemic