

RYOZO MASUKAWA

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Education

University of California, Irvine

Master of Science in Computer Science

September 2023 – Present

GPA: N/A

Meiji University, Tokyo

Bachelors of Science in Computer Science

April 2018 – March 2023

GPA: 3.86/4

Advisor : Tomohiro Takagi at Web Science Laboratory (WSL)

University of California, Berkeley

Summer Sessions

June 2019 – August 2019

GPA: 4.0/4

Award

Academic Excellence Award at Meiji University

March 26, 2023

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

Technical Skills

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_EX

Projects

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

April 2022 – March 2023

- Served as a project leader
- 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
- 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

Comment generation using a large language model for fashion item recommendation | [link](#)

August 2023

- Preprint to MMAsia 2023

Trend Analysis-Based Fashion Image Generation | [link](#)

June 2023

- The 37th Annual Conference of the Japanese Society for Artificial Intelligence, 2023 (JSAI 2023)

GAN-based Detailed Clothing Generation System | [link](#)

February 2023

- The 17th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2022)
- Developed a GAN-based clothing image generation model that can specify the clothing design in detail

Extracurricular works and Internships

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
- Won the first prize in terms of forecasting 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