RYOZO MASUKAWA

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Education

University of California, Irvine	**September 2023 – Present**
Master of Science in Computer Science	*GPA: N/A*

Meiji University, Tokyo	**April 2018 – March 2023**
Bachelors 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

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, TEX

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

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