

# Keisuke Umezawa

---

Email: [keisuke.umezawa\[at\]gmail.com](mailto:keisuke.umezawa[at]gmail.com)

Twitter: [@komezawa\\_](https://twitter.com/komezawa)

Blog(ja): [Hatena Blog](#)

Blog(en): [Medium](#)

GitHub: [github.com/keisuke-umezawa](https://github.com/keisuke-umezawa)

Senior Engineering Manager, Machine Learning /  
Head of Engineering, Customer Service Platform

---

## Profile Summary

I am a machine learning engineering manager who has a wide variety of experiences such as ad matching, recommendations, financial market forecasts, customer attribute prediction, chatbots, user and content moderations, etc. I have experienced management of projects and leading teams for ML in addition to hands-on experience in ML modeling, backend system design, and development. Nowadays, I also contribute to the management of strategy and organization for the customer support platform division to maximize the outcome and be accountable for the company.

## Work Experience

**2022.1-(Current) Head of Engineering, Customer Service Platform:** Mercari, Inc, Japan

- Organization management such as team forming, budget planning, etc.
- Strategy management such as annual planning, quarterly planning, etc.

**2019.12-(Current) Engineering Manager, Machine Learning:** Mercari, Inc, Japan

- Recommendation
  - Provide personalized components on the home screen
- Customer Support Platform
  - Automatic response to customer contacts by ML
  - Template suggestion to reply in the contact tool
- Trust and Safty
  - Content moderation with item and user behavior information
- Marketing Automation
  - Platform for predicting customer attributes

**2018.3-2019.11 Engineer, Chief Engineering Manager:** AlpacaJapan, Japan

- Leading model development for **AlpacaForecast** (Forex market prediction) using deep learning with data scientists
- Developed trading backtesting engine “**AlpacaDB/backlight**” to standardize evaluation method
- Standardize development process and team management: introduced ticketing system, scrum meeting, 1on1 and guidelines for development and communication

### 2017.3-(Current) Chainer Evangelist, Optuna Developer: Preferred Networks, Japan

- Responsible for increasing people who uses “**Chainer**”
  - Organizing **chug** (Chainer User Group)
  - Holding talks about the deep learning and its framework “**Chainer**”
  - Improving the **documentation** and **tutorials**
  - Held more than 10 hands-ons and meetups

### 2016.8-2018.3 Engineer: Yahoo Japan Corporation, Japan

- Developed inhouse search engines for the ad and media services
  - **developing inhouse search engine for advertisement distribution system** with C++, Java and Python
  - Instructed agile software development such as Scrum
  - Instructed C++ coding in the team
- Led and productized inhouse recommendation engine for the media services
  - Led a data scientist and system engineers to build new deep learning based **recommendation system**
  - Responsible for satisfying requirements, architecture design and team management

### 2014.4-2016.8 Quantitative Analyst and Model Developer: the Bank of Tokyo Mitsubishi UFJ, Japan

- Developed derivatives pricing model and risk management system with C++

## Education

### 2012.4-2014.3 MSc, Information Science and Technology; Graduate School of Information Science and Technology, the University of Tokyo, Japan

- Human motion recognition and robot motion generation by HMM

### 2012.5-2012.8 Internship, at Learning Algorithms and Systems Laboratory (LASA); the Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

### 2008.4-2012.3 BE, Department of Mechano-Informatics; Faculty of Engineering, the University of Tokyo, Japan

## Technical Experience

#### Product Management

##### Managed teams using following ideas:

- Writing technical specs and requirements
- Schedule management
- Agile Methodology (Scrum/Kanban)
- Ticketing tools such as Jira, Github projects

#### Programming Languages

**first-lang:** experienced items as follows with C++ and python.

- Object-Oriented Programming
- Design of API
- Multi-thread programming

In addition, basic knowledge of **Java**, **Go**.

|                               |  |
|-------------------------------|--|
| <b>System Architecture</b>    | Basic experience of <b>RDS</b> , <b>KVS</b> , <b>Message Queue</b> , <b>Search Engine</b> , <b>Restful API</b> |
| <b>Development Tools</b>      | Basic experience of <b>GitHub</b> , <b>Docker</b> , <b>k8s</b> , <b>ci/cd</b> , <b>GCP/AWS</b>                 |
| <b>Machine Learning Tools</b> | Basic experience of ML libraries such as <b>PyTorch</b> , <b>scikit-learn</b> , <b>pandas</b> and etc.         |

## Publication

- A. L. P. Ureche, K. Umezawa, Y. Nakamura and A. Billard, "Task Parameterization Using Continuous Constraints Extracted From Human Demonstrations," in IEEE Transactions on Robotics, vol. 31, no. 6, pp. 1458-1471, Dec. 2015. [link](#)

## Extra Section

- Certificates:
  - IPA Database Specialist
- Languages:
  - Japanese (native)
  - English (CEFR - B2)