Keisuke Umezawa

Email: keisuke.umezawa[at]gmail.com
Twitter: [@kumezawa](https://twitter.com/kumezawa_)
Blog(ja): **Hatena Blog**
Blog(en): **Medium**
GitHub: **github.com/keisuke-umezawa**
Machine Learning Engineer / Engineering Manager

Profile Summary

Software and machine learning engineer with the experiences in financial modeling, search engine development , recommendation engine and content moderation system development. In most cases, I led teams to accomplish the targets by sharing objectives, requirements and schedules. When assigning tasks to someone, I think that the most important thing is delegating ownership and responsibility to motivate them.

Work Experience

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

- CRE (Customer Reriability Engineering)
  - Content moderation with item and user behavior information
  - Automatic response to customer inquiries by ML
- CRM (Customer Relationship Management)
  - Platform for predicting customer attributes
- CXI (Customer Experience Improvement)
  - **Visualizing and improving retention rates for each customer experience**

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**
  - Holded 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++ cording in the team
- Led and productized inhouse recommendation engine for the media services
  - Leaded 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

2012-2014   **MSc, Department of Mechano-Informatics**; 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

2008-2012   **BSc, Department of Mechano-Informatics**; Faculty of Engineering, the University of Tokyo, Japan

Technical Experience

Product Management	**Managed teams using following ideas**: • Delegating ownership and responsibility • 1on1 • Agile Methodology (Scrum/Kanban) • Ticketing tools s.t. Jira, Github projects
Programming Languages	**first-lang**: experienced items as follows with C++ and python • Object-Oriented Programming • Design of API • Multi-thread programming • C++ meta programming • Functional programming Basic knowledge of **C++**, **Python**, **Java**, **sh/bash**. And a fun of **Rust**.
System Architecture	Basic experience of **RDS**, **KVS**, **Message Queue**, **Search Engine**, **Restful API**
Development Tools	Basic experience of **GitHub**, **Docker**, **k8s**, **ci/cd**

Machine Learning Algorithms	**Implementation Experience**
	• linear regression, logistic regression, k-NN, k-means, Hidden Markov Model
	• Deep Learning Application
	– CNN, RNN, word2vec, seq2seq, DCGAN, WaveNet, etc
	Use Experience
	• SVM, Ensembler, Logistic Regression, 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
- Human Languages:
  - Japanese (native speaker)
  - English (business level)