

# Takuya Kitazawa

## About me

- M.S. in Information Science and Technology, specialized in recommender systems
- 6+ years of hands-on experience as a Software Engineer, OSS Developer, Data Scientist, and Machine Learning Engineer
- Developing consumer-facing web/mobile applications and their backend infrastructure
- Deploying ML solutions to an enterprise-grade big data analytics platform
- Wearing many hats in global teams, ranging from Technical Evangelist and Pre-Sales Engineer to Solution Architect and Product Manager, as a bilingual customer-centric product developer

02/2020 – Present **Senior Product Manager** Project Management Data Analytics & Visualization  
[Arm Treasure Data](#), Tokyo, Japan

04/2019 – 02/2020 **Staff Engineer** IoT C/C++ Python PySpark Hive  
[Arm Treasure Data](#), Tokyo, Japan

- Mapped out granular IoT-data integrated use cases and solution ideas through customer-facing work with global teams.
- Developed a [brand-new Python client tool](#) for an enterprise big data analytics platform, and renovated the surrounding data science ecosystem from the product standpoint.
- Evangelized company's IoT and ML offerings, and enabled internal and external people to easily leverage them.
  - [Office Hours - Intro to Pelion Data Management - Takuya Kitazawa & Junko Nakahima](#), YouTube.
  - [Zero-Coding UMAP in Marketing](#), YouTube.

07/2018 – 03/2019 **Senior Engineer** IoT Python Hive Solution Engineering  
[Arm Treasure Data](#), Tokyo, Japan

- Evangelized the connection of Big Data, ML, Data Science, and IoT.
  - [Data Science in IoT with Treasure Data | Mbed Connect 2018](#), YouTube.
  - [Mbed Connect USA 2018 Workshop: Introduction to Data Science](#), Speaker Deck.
- Worked closely with the internal sales engineering team to accomplish customer-facing ML opportunities in a wide variety of industries, including retail, gaming, and media.

02/2017 – 07/2018 **Data Science Engineer** Python Hive Java Ruby on Rails Solution Engineering  
[Treasure Data](#), Tokyo, Japan  
(Acquired by [Arm](#))

- Regularly contributed to the development of Apache Hivemall, a scalable ML library running on Apache Hive and Spark.
- Led the development of out-of-the-box ML applications from competitor analysis and product requirement documentation to system implementation and customer onboarding.

12/2016 – 01/2017 **R&D Intern** Python Recommender Systems  
[Silver Egg Technology](#), Tokyo, Japan

Developed recommendation algorithms for customers' purchase data on a real-world e-commerce service.

## Contact

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📺 [Takuya Kitazawa's talks](#)

## Personal

👤 25/02/1993, Nagano, Japan  
🏠 Tokyo, Japan  
❤️ Traveling, Running, Hiking, Drinking

## Skills

🔧 Unix, Linux, Windows, AWS, Docker, Git, MySQL, PostgreSQL, MongoDB, Fluentd, Spark, Hive  
</> Python, Julia, Java, Scala, Ruby, JavaScript (Node.js), PHP, MATLAB, Swift, Objective-C, C, C++  
🗣️ Japanese (native), English (IELTS Academic Overall 7.0 in Feb 2020)

## Courses and Certifications

- [UI / UX Specialization](#), California Institute of the Arts, Coursera, Aug 2020.
- [Finance for Non-Finance Professionals](#), Rice University, Coursera, May 2020.
- Introduction to User Experience Design, Georgia Institute of Technology, Coursera, May 2020.
- [Functional Programming in Scala Specialization](#), École Polytechnique Fédérale de Lausanne, Coursera, May 2020.
- [Applying Machine Learning to your Data with GCP](#), Google, Coursera, Sep 2018.
- Introduction to Recommender Systems, University of Minnesota, Coursera, Oct 2016.
- Machine Learning, Stanford University, Coursera, June 2014.
- Applied Information Technology Engineer Examination, Information-technology Promotion Agency (IPA), Japan. Passed in 2010, with a pass rate of 20.3% (8,592 out of 42,338).

## Publications

### Conference Talks

- 📺 T. Kitazawa. [Apache Hivemall Meets PySpark: Scalable Machine Learning with Hive, Spark, and Python](#). ApacheCon Europe 2019.
- 📺 T. Kitazawa and M. Yui. [What's New and Coming to Apache Hivemall: Building More Flexible Machine Learning Solution for Apache Hive and Spark](#). ApacheCon North America 2019.
- 📺 T. Kitazawa. [Recommendation.jl: Building Recommender Systems in Julia](#). JuliaCon 2019.
- 📺 T. Kitazawa. [Apache Hivemall: Query-Based Handy, Scalable Machine Learning on Hive](#). ODSC Europe

08/2016 – 09/2016 **Machine Learning Intern** AWS Python Hive Java Recommender Systems

Anomaly Detection

[Treasure Data](#), Tokyo, Japan

- Implemented an anomaly detection system for Datadog multiple metrics.
- Developed Hive UDFs for recommendation and anomaly detection.

10/2015 – 06/2016 **Part-time Software Engineer** Python PHP Recommender Systems

08/2015 – 09/2015 **Software Engineering Intern**

[Rakuten Institute of Technology](#), Tokyo, Japan

Worked on a real-world recommender system for a golf booking service.

02/2012 – 02/2013 **Part-time Software Engineer** PHP JavaScript Objective-C Image Processing

[HANASAKE PICTURES](#), Fukushima, Japan

Developed PHP applications for a Japanese avatar-based social networking service, and an iOS application for virtual trial fitting using an image blending algorithm named Poisson Image Blending.

10/2011 – 03/2013 **Research Assistant / Web Developer** Ruby on Rails JavaScript

Data Visualization Geospatial Data

[The University of Aizu](#), Fukushima, Japan

Developed a web application "Aizu Weather" for regional weather monitoring. Implemented interactive geospatial data visualization with Ruby on Rails and D3.js.

## Education

04/2015 – 03/2017 **M.S. in Information Science and Technology**

[The University of Tokyo](#), Tokyo, Japan

Thesis: Persistently Cold-Starting Online Item Recommendation for Implicit Feedback Data

Advisor: Dr. Takayasu Matsuo

GPA: 4.0

Activities:

- Served as a student volunteer at [RecSys 2016](#) (Sep 2016)
- Participated in [Machine Learning Summer School Kyoto 2015](#) (Aug 2015)

04/2011 – 03/2015 **B.S. in Computer Science and Engineering**

[The University of Aizu](#), Fukushima, Japan

Thesis: User Modeling in Folksonomies: Relational Clustering and Tag Weighting

Advisor: Dr. Masahide Sugiyama

GPA: 3.97


Honors and Awards:

- President's Award — Summa Cum Laude equivalent (2015)
- Dean's List of Distinguished Students (2012 – 2015)
- [Best Paper Prize, IEEE Sendai Section Student Awards](#) (2014)
- [Innovative Award, The Tokyo American Center and Keio SFC Entrepreneurship Seminar and Business Plan Competition](#) (2012)


Activities:


- Served as a teaching assistant in a Numerical Analysis course, and thought Java coding of numerical methods to 20+ undergraduates (Fall 2014)
- Participated in [Security and Programming Camp 2011](#) to deepen knowledge in web security (Aug 2011)


2018.


 T. Kitazawa. [FluRS: A Library for Streaming Recommendation Algorithms](#). EuroSciPy 2017.


International Conference, Workshop, and Demo Papers (referred)

 T. Kitazawa. [Zero-Coding UMAP in Marketing: A Scalable Platform for Profiling and Predicting Customer Behavior by Just Clicking on the Screen](#). Adjunct Publication of the 27th Conference on User Modeling, Adaptation and Personalization (UMAP 2019).


 T. Kitazawa and M. Yui. [Query-Based Simple and Scalable Recommender Systems with Apache Hivemall](#). Proceedings of the 12th ACM Conference on Recommender Systems (RecSys 2018).


 T. Kitazawa. [Sketching Dynamic User-Item Interactions for Online Item Recommendation](#). Proceedings of the 2017 Conference on Conference Human Information Interaction and Retrieval (CHIIR 2017).


 T. Kitazawa. [Incremental Factorization Machines for Persistently Cold-starting Online Item Recommendation](#). The 1st Workshop on Profiling User Preferences for Dynamic Online and Real-Time Recommendations (RecProfile), in conjunction with RecSys 2016.


 T. Kitazawa and M. Sugiyama. [User Modeling in Folksonomies: Relational Clustering and Tag Weighting](#). Proceedings of the 5th International Conference on Web Intelligence, Mining and Semantics (WIMS 2015).


Japanese Domestic Conference Papers (non-referred)

 T. Kitazawa. Incremental Item Recommendation Using a SVD-based Streaming Anomaly Detection Framework (in Japanese). Numerical Analysis Symposium 2016 (NAS 2016), June 2016.

 T. Kitazawa. [Incremental Factorization Machines for Item Recommendation in Data Streams](#). The 30th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI 2016), IC2-5, June 2016.

 T. Kitazawa and T. Matsuo. [Incremental Approaches for Matrix Approximation: Performance Evaluations and Their Possible Applications](#) (in Japanese). The Japanese Society for Artificial Intelligence SIG-FPAI-98, Aug 2015.

 T. Kitazawa and M. Sugiyama. [User Modeling through Relational Clustering on Folksonomy](#) (in Japanese). The 77th National Convention of Information Processing Society of Japan (IPSJ 2015), 3N09, Mar 2015.

 T. Kitazawa and M. Sugiyama. [Relational Clustering in Social Bookmark](#). Tohoku-Section Joint Convention of Institutes of Electrical and Information Engineering, 2A05, Aug 2014. [IEEE Sendai Section Student Awards: The Best Paper Prize](#)