**Kazuhiro Tachibana**

**Birth date:** November 23, 1973

**Languages:** Japanese – native, English – fluent, Korean-native

**Nationality:** Japanese

**Resides:** S1913, Grand Mid Towers Omiya,

3-7-1, Shimocho, Omiya-ku Saitama-shi, Saitama, 330-0844, Japan

**Phone Number:** 080-9346-7257

**Email:** tachibian@gmail.com

**Education:**

Apr 1992 – Mar 1996

University of Waseda, Tokyo, Japan

Bachelor of Mechanical Engineering

**Technical Skills:**

* C/C++/Java/JSP/Spring/Struts2/Groovy/Golang
* SOAP/RestfulAPI
* JavaScript/ JQuery/ HTML/ XML
* Apache2/Nginx/Tomcat7
* Oracle DB/ MySQL/ PostgreSQL/Redis
* Docker/ Kubernetes/Cloud Foundry/Istio/Rook/Jenkins/Spinnaker
* Drupal/Hugo
* GCP /Azure/ Oracle Cloud
* Linux/Windows

**Summary:**

Making use of OSS, I have been working on system integration as a full stack engineer, from developing front-end or back-end applications to designing and building application runtime environment in cloud platform. In these days, as IT architect, I am making effort to expand the concept and practices of cloud native that can enhance DevOps with agility to have quick response to business demand and deeply looking into associated core technologies or specific implementations that can help to realize cloud native, such as Docker, Kubernetes, Microservices, Service Mesh, CI/CD and Serverless. Also the ability of speaking English, Japanese, Korean must help me to have widely perspective view or communication to allow fast tracing cutting edge trend in IT industry.

**Career History:**

Dec, 2007～Present Rakuten, Inc, Tokyo, Japan

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| Period | Project Summary | Technology Stack | Role |
| Jun, 2018  ～  Present | ■Project  Evaluating and adopting Cloud Native Storage in using Rook  ■Description  Researching essential of Cloud Native Storage to maximize Cloud Native environment portability and evaluating Rook as the first storage categorized project in Cloud Native Computing Foundation that is designed to bring persistent storage into Cloud Native environment such as Kubernetes cluster.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating the fundamental concept of Cloud Native Storage and it’s first implementation, “Rook” developed by Cloud Native Computing Foundation that resulted in that Rook was designed to bring storage into Cloud Native environment to maximize Cloud Native environment portability and could be operated via Kubernetes primitive function, it was much compatible to Kubernetes. I planned to conduct PoC of Rook for future adoption. | [OS]  CentOS 7.2  [Language]  GO 1.10.1  [Middle Ware]  Docker 1.12.6  Kubernetes 1.9  Rook  MySQL 5.6.31  RabbitMQ  JMeter  Ceph | Consultant |
| Apr, 2018  ～  May, 2017 | ■Project  Evaluating and adopting Servivce Mesh in using Istio  ■Description  Because of emerging microservices as a Cloud Native Application Architecture effort, researching essential of Service Mesh to enhance microservices communication and evaluating Istio as representative implementation of Service Mesh for the adoption.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating major two implementations of Service Mesh, Istio and Linkerd that resulted in that few differences were found from feature perspective but Istio performed better when much scaling out and also because Istio could be operated via Kubernetes primitive function, it was much compatible to Kubernetes. I also posted the whole summary to Rakuten Tech Blog.  (<https://techblog.rakuten.co.jp/2018/06/19/service-mesh/>) | [OS]  CentOS 7.2  [Language]  GO 1.10.1  [Middle Ware]  Docker 1.12.6  Kubernetes 1.9  Istio 0.6  MySQL 5.6.31  RabbitMQ | Consultant |
| Period | Project Summary | Technology Stack | Role |
| Jan, 2018  ～  Mar, 2018 | ■Project  Evaluating and adopting Continuous Delivery in using Spinnaker  ■Description  Because much more spread container usage, much critical Continuous Delivery becomes, researching de facto standard how to implement Continuous Delivery and evaluating Spinnaker developed by Netflix as container specific Continuous Delivery tool in cloud native environment for the adoption.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating the best practices of Continuous Delivery and it’s cutting edge implementation, ‘Spinnaker” developed by Netflix. I hired Spinnaker as alternative CD tool to Jenkins that was designed under the concept of Cloud Native and much compatible to Cloud Native environment such as Kubernetes. I also posted the whole summary to Rakuten Tech Blog.  (<https://techblog.rakuten.co.jp/2018/02/06/cd-the-best-practice/>) | [OS]  CentOS 7.2  [Language]  Java8  [Middle Ware]  Docker 1.12.6  Kubernetes 1.9 | Consultant |
| Dec, 2017  ～  May, 2018 | ■Project  Integrating Content Management System for Rakuten Tech Blog  ■Description  To increase the number of blog post, simplifying creating blog, audit workflow by adopting content management system and integrating Drupal as sophisticated one.  ■Engaged Phase  Requirement Definition, External Design, Internal Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in building Rakuten Tech Blog CMS that was stacked on Drupal as a content manage system, Cloud Foundry as a runtime platform, MySQL, S3 Ganesha and LDAP. I successfully promoted Rakuten Tech Blog CMS that could provide easier way of posting to Rakuten ENG with high motivation for posting. | [OS]  CentOS 7.2  [Language]  PHP 7.1.17  [Middle Ware]  CloudFoundry  Apache 2.4.33  Drupal 8.4.6  MySQL 5.7.18  S3 Ganesha  LDAP | Tech Manager |
| Period | Project Summary | Technology Stack | Role |
| Oct, 2017  ～  Nov, 2017 | ■Project  Evaluating Stateful Containers  ■Description  To get over the defects such as incomplete portability caused by container stateless, evaluating container stateful combining container and persistent storage, that is pretty much new effort in IT industry and seeking the feasibility.  ■Engaged Phase  Evaluation  ■Achievement  I achieved in evaluating major three implementations of Software Defined Storage, Infinit, vSphere Docker Volume Service and Kubernetes Persistent Volume from feature perspective that resulted in that all of them provided rich features to realize container stateful and few differences were founded among them. I hired and promoted Kubernetes Persistent Volume as Rakuten already started using Kubernetes. | [OS]  N/A  [Language]  N/A  [Middle Ware]  N/A | Consultant |
| Aug, 2017  ～  Sep, 2017 | ■Project  Evaluating and adopting Kubernetes Routing  ■Description  Evaluating what is the best practice to access Pod running on Kubernetes cluster from the outside and adopting it.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating and introducing sophisticated method to expose Kubernetes Pod to outside of the cluster, called “Ingress” that allowed user to take L7 access to specific Pod. I demonstrated how easy to take L7 access to a Pod in comparison L4 access by conducting PoC with simple web apps. I also posted the whole summary to Rakuten Tech Blog.  (<https://techblog.rakuten.co.jp/2017/09/07/k8s-routing/>  <https://techblog.rakuten.co.jp/2017/09/28/k8s-routing2/>) | [OS]  CentOS 7.2  [Language]  Java8  [Middle Ware]  Tomcat8  Docker 1.12.6  Kubernetes 1.6 | Consultant |
| Period | Project Summary | Technology Stack | Role |
| June, 2017  ～  July, 2017 | ■Project  Evaluating Moby and LinuxKit  ■Description  Evaluating essential concept and representative features of Moby and LinuxKit, seeking feasibility whether it can be next main stream in container technologies or not.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating Moby and LinuxKit basic concept that they were designed for delivering fully optimized Linux distribution consisted of Linux native container that realized true OS level immutable infrastructure. I also conducted PoC by containerizing Jenkins + LinuxKit in using Moby that worked in Linux, Mac, Windows as expected. I posted the whole summary to Rakuten Tech Blog.  (<https://techblog.rakuten.co.jp/2017/07/26/moby-and-linuxkit/>) | [OS]  CentOS 7.2  [Language]  Java8  [Middle Ware]  Moby 1.6  Tomcat8  Jenkins 1.633 | Consultant |
| Apr, 2017  ～  May, 2017 | ■Project  Evaluating Cloud Performance  ■Description  To clarify the direction of Rakuten cloud strategy, evaluating the performance benchmark for Rakuten private cloud and public cloud such as GCP, Azure, AWS in computing consumption and comparing them from cost effectiveness perspective.  ■Engaged Phase  Evaluation, Design, Coding, Test, Server Provisioning  ■Achievement  I achieved in evaluating cloud performance by developing and running benchmark tool in using Java Microbenchmarking framework on Rakuten IaaS, PaaS, AWS, GCP, Azure that resulted in Rakuten IasS and PaaS performed much effectively in cost comparison that became crucial milestone to decide Rakuten cloud strategy. | [OS]  CentOS 7.2  [Language]  Java8  Java Microbenchmarking Harness 1.18  Ehcache 2.10.4  [Middle Ware]  Docker 1.12.6  Kubernetes 1.5 | Consultant |
| Period | Project Summary | Technology Stack | Role |
| Feb, 2017  ～  Present | ■Project  Developing and operating Rakuten Tech Blog  ■Description  To expand Rakuten technologies trend and practice to global-wide, developing and launching Rakuten Tech Blog and operating the site. (<https://techblog.rakuten.co.jp>)  ■Engaged Phase  Requirement Definition, External Design, Internal Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in starting Rakuten Tech Blog that was stacked on Hugo as a static contents generator, Cloud Foundry as a runtime platform and Bitbucket as SCM. I also integrated with Google Analytics to track access trend that showed 200 of PV and 180 of UU in a week. | [OS]  CentOS 7.2  [Language]  GO 1.9.1  [Middle Ware]  CloudFoundry  Nginx 1.5.10  Hugo 0.19  Bitbucket 5.9.1 | Tech Leader |
| Jan, 2017  ～  Feb, 2017 | ■Project  Evaluating How to Implement Cloud Native Application Architecture  ■Description  To take containers or microservices working effectively in daily DevOps, researching essential of Cloud Native Application Architecture as an underlying thought of it, and evaluating how to implement Cloud Native Application Architecture from technologies, organization and culture perspective.  ■Engaged Phase  Evaluation  ■Achievement  I achieved in evaluating how to implement Cloud Native Application Architecture from organization, culture and technology, that required decentralized governance as an essential | [OS]  N/A  [Language]  N/A  [Middle Ware]  N/A | Consultant |
| Period | Project Summary | Technology Stack | Role |
| July, 2016  ～  Aug, 2016 | ■Project  Evaluating Habitat  ■Description  Evaluating Habitat feature, that is comparatively new container technology and seeking feasibility that it can be alternative of Docker that still have some of the defects such as less portability, risk of vendor lock-in.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in finding that Habitat was much portable by porting Rakuten apps to Habitat Package and deploying it to any of infrastructure or platform, such as VM, PaaS or even Docker. I also reached conclusion that Habitat would be used for an installer when provisioning in using Chef. | [OS]  CentOS 7.2  [Language]  Java8  [Middle Ware]  Habitat 0.9.0  Tomcat8  MySQL5.5 | Consultant |
| Apr, 2016  ～  Dec, 2016 | ■Project  Evaluating Kubernetes and Standardizing Container Orchestration  ■Description  For accelerating Docker adoption to Rakuten services, evaluating container orchestration related technologies such as Kubernetes and standardizing container orchestration.  ■Engaged Phase  Evaluation, Server Provisioning  ■Achievement  I achieved in evaluating Kubernetes and Docker Swarm in terms of their functionality that resulted in that Kubernetes offered much richer feature set and was much flexible to use a variety third-party tools. I also hired Prometheus as a monitoring tool that was much compatible and quicker catching up to Kubernetes. I successfully promoted Kubernetes as a standard tool to accelerate Rakuten container strategy. | [OS]  CentOS 7.2  [Language]  Java8  [Middle Ware]  Docker 1.12.1  Kubernetes 1.3.1  Prometheus1.3  MySQL5.5  Redis2  Tomcat8 | Consultant |
| Period | Project Summary | Technology Stack | Role |
| Feb, 2016  ～  Oct, 2016 | ■Project  Evaluating and adopting Oracle Cloud  ■Description  To maximize the agility of global deployment for Rakuten services, resolving platform or infrastructure region issue and reducing operation cost on OnPremisies by adopting public cloud. Evaluating Oracle Cloud as a candidate.  ■Engaged Phase  Vendor Coordination, Evaluation  ■Achievement  I achieved in evaluating Oracle Cloud in terms of how much compatible to Rakuten apps running in OnPremises by deploying apps to Oracle Cloud that resulted in compatibility to apps in terms of functionality was completely as same as OnPremises.I successfully promoted Oracle Cloud as a candidate for future migration. | [OS]  CentOS 7.2,  Oracle Linux6.0  [Language]  Java7  [Middle Ware]  Oracle Java Cloud  Google Compute Engine  MySQL5.5  Redis2  WebLogic12c | Consultant |
| Nov, 2015  ～  Jan, 2016 | ■Project  Automating Load Test  ■Description  Automating load test in routine that can eliminate much human cost and have good opportunity to remind of the capacity limit that can be helpful to be ready to leverage workaround to handle unexpected spike.  ■Engaged Phase  Evaluation, Design, Test, Server Provisioning  ■Achievement  I achieved in building load test environment in production that consisted of test specific components such as, slave DB, JMeter, Jenkins and Sonar that allowed us to conduct automated load test with production data which brought reliable test result and helped to predict load impact. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0  JMeter  Jenkins  Sonar | Tech Manager |
| Period | Project Summary | Technology Stack | Role |
| Aug, 2015  ～  Dec, 2015 | ■Project  Upgrading RabbitMQ  ■Description  Because RabbitMQ new version support distribution policy per client requirement, upgrading RabbitMQ for high flexibility and easy extensibility.  ■Engaged Phase  Evaluation, Design, Coding, Server Provisioning and Operation  ■Achievement  I achieved in distributing RabbitMQ instances with federation feature that allows each of the clients to configure their own instances as per need. I also successfully replaced with new RabbitMQ instances in production. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  [Middle Ware]  CloudFoundry  Tomcat7.0  RabbitMQ | Tech Manager |
| Apr, 2015  ～  July, 2015 | ■Project  Converting UUID to binary  ■Description  To reduce disk I/O load to DB , converting data type of UUID used for primary key from string to binary and it can be highly expected to see highly improved throughput in DB write operation overall.  ■Engaged Phase  Evaluation, Design, Test  ■Achievement  I achieved in refactoring API respecting to UUID binary conversion without breaking backward compatibility. Also I estimated the effectiveness in writing operation before and after UUID binary conversion under the traffic equivalent to production, that resulted in that it showed three times faster than before the conversion. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0  Jenkins  Sonar | Tech Manager |
| Period | Project Summary | Technology Stack | Role |
| Jan, 2015  ～  Mar, 2015 | ■Project  Migrating Redis to IaaS  ■Description  Due to not functioning Redis fail-over on PaaS, for avoiding unexpected failure that might impact on service level overall, migrating Redis to IaaS and reconfigure it to have much flexible operation, enhanced monitoring.  ■Engaged Phase  Evaluation, Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in building stable Redis instance with Sentinal as a monitoring tool in IaaS which was completely compatible to all apps used to use unstable Redis in PaaS. I tested and confirmed failover function worked as expected without causing error in apps. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0  Redis2 | Tech Manager |
| Aug, 2014  ～  Dec, 2014 | ■Project  Initiating NoSQL  ■Description  For complete Cross Border service, resolving remained issue that might cause giving stale data because of replication latency among DB instances distributed to each region and adopting NoSQL solution which is designed to provide high advanced replication feature to replicate critical data into DB instances in each region quickly.  ■Engaged Phase  Evaluation, Design, Test  ■Achievement  I achieved in evaluating Couchbase and Mongo DB as document oriented type NoSQL product that resulted in that Couchbase showed better performance in writing operation than Mongo DB when data volume was getting bigger. I also designed MySQL and Couchbase synchronization in using message queue that enabled logical replication. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  [Middle Ware]  Couchbase 3.0  Mongo DB 2.4  MySQL5.5  RabbitMQ | Tech Manager |
| Period | Project Summary | Technology Stack | Role |
| Jan, 2014  ～  July, 2014 | ■Project  Developing Cross Border service in Global EC Platform  ■Description  For allowing the merchants to engage cross-cutting retail in multiple marketplace on Global EC Platform, developing Cross Border service and launching the service in Indonesia and Malaysia Rakuten Marketplace.  ■Engaged Phase  Requirement Definition, Internal Design, DB Design, Test, Sserver Provisioning and Operation  ■Achievement  I achieved in redesign DB schema to satisfy Cross Border feature by adopting hierarchical data model with new concept, merchant and shop, that allowed merchants to engage cross-cutting retail in multiple marketplace on Global EC Platform. Also I refactored API respecting to the DB schema redesign with complete backward compatibility from API I/F perspective. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0  RabbitMQ,  Redis2, Jenkins  Sonar | Tech Manager |
| Oct, 2013  ～  Dec, 2013 | ■Project  Sharding and scaling DB  ■Description  For achieving Global EC Platform high availability, sharding and scaling DB instances that especially are handling critical data such as item or stock per region respecting to cross region strategy.  ■Engaged Phase  Internal Design, DB Design, Test, Server Provisioning and Operation  ■Achievement  I achieved in splitting DB instance into Asia DB and Europe DB that would allow us to have opportunity to physically move DB to another region without when necessary in future. At the same time, for enhancing DB performance, I performed table partitioning and compression. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  mybatis  [Middle Ware]  MySQL5.5 | Tech Manager |
| Period | Project Summary | Technology Stack | Role |
| Jun, 2013  ～  Sep, 2013 | ■Project Migrating Global Shopping Service to Global EC Platform  ■Description Migrating Global Shopping service from Japan Rakuten Marketplace to Global EC Platform to allows Japan merchants to sell their products to the customers from abroad.  ■Engaged Phase  Requirement Definition, Internal Design, DB Design, Test, Server Provisioning and Operation  ■Achievement  I achieved in Global Shopping Service migration to Global EC Platform by migrating only backend part as a bridge API that was designed to call core APIs running in Japan Marketplace and to be called by frontend which was completely newly developed in Global EC Platform. Because of enhancing translation performance, I replaced legacy translation API with Bing from MS. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0,  Redis2, Jenkins,  Sonar | Tech Manager |
| Mar, 2013  ～  May, 2013 | ■Project  Migrating Indonesia Rakuten Marketplace to Global EC Platform  ■Description Migrating legacy Indonesia Rakuten Marketplace serving EC major features, such as Merchant, Item, Order, Point and Membership to Global EC Platform.  ■Engaged Phase  DB Design, Migration Environment Setup  ■Achievement  I achieved in conducting data migration rehearsal in test environment which resulted in successful data migration to Global EC Platform in production environment. I also performed WebAPI load test to find out the threshold for Global EC Platform to survive in handling traffic from Indonesia Rakuten Marketplace. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0 | Tech Leader |
| Period | Project Summary | Technology Stack | Role |
| Nov, 2012  ～  Feb, 2013 | ■Project  Developing additional features for Global EC Platform  ■Description  Enhancing Global EC Platform with additional features implemented that allows legacy Rakuten marketplace system to be ready for the migration to Global EC Platform   ■Engaged Phase  Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in filling feature gap between legacy Rakuten Marketplace system and Global EC Platform by modifying API I/F or DB schema to get ready to replace the legacy system. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0  RabbitMQ,  Redis2, Jenkins,  Sonar | Tech Leader |
| Jan, 2012  ～  Oct, 2012 | ■Project  Developing Global EC Platform and Launching Malaysia Rakuten Marketplace  ■Description Developing Global EC Platform that can unify all of Rakuten marketplace system into one single system which is expected to lay the foundations for Rakuten Eco system in future. Delivering completely separated localized UI/UX and Web API based core system that provides globally available core business functions that can lead Malaysia Rakuten marketplace to quick launch.  ■Engaged Phase  Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in establishing basis to build unified platform by classifying features into three business context, merchant, product and order. Avoiding redundancy, I also redesigned associated DB schema and API I/F as per business context as much as abstracted that could be globally used as core features. Because of the concept of unified platform, I refined some of the attributes commonly used to describe each of the marketplaces, such as country code, currency code, measurement unit or timezone that were used for localized presentation layer. | [OS]  Debian GUN/Linux5.0  [Language]  Java7  jersey  Spring3  mybatis  [Middle Ware]  MySQL5.5  CloudFoundry  Tomcat7.0,  RabbitMQ,  Redis2, Jenkins,  Sonar | Tech Leader |
| Period | Project Summary | Technology Stack | Role |
| Apr, 2011  ～  Dec, 2011 | ■Project  Developing WYSIWYG(What You See Is What You Get) feature in China Rakuten Marketplace ■Description For enhancing existed page generation feature, developing WYSIWYG feature that provides China merchants with the means for easy view UI, such as drag&drop.  ■Engaged Phase  Internal Design, DB Design, Coding, Test, Server Operation  ■Achievement  I achieved in adding WYSIWYG feature by adopting Ajax to frontend and implementing JSON based RestfulAPI as backend, that much comfortable to user to design page layout. | [OS]  Debian GUN/Linux5.0  [Language]  Java6  jax-ws  Spring2  ibatis  Jquery  [Middle Ware]  Oracle10g  memcached  Apache2.2  Tomcat6.0 | Tech Leader |
| Nov, 2010  ～  Mar, 2011 | ■Project  Developing Open API for China merchants ■Description  Developing Open API for China merchants to allow them to have their legacy system interacted with the core features, such as item registration or generating item page implemented in China Rakuten Marketplace.  ■Engaged Phase Requirement Definition, External Design, Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in API I/F design that much compatible to their legacy system allowing product registration, update and delete operation. Also by adding queue layer before internal system and developing synchronization batch, I successfully prevent internal system from high load caused by unexpected spike from the outside. | [OS]  Debian GUN/Linux5.0  [Language]  Java6  jax-ws  Spring2  ibatis  [Middle Ware]  Postgres8.4,  memcached  Apache2.2  Tomcat6.0 | Tech Leader |
| Apr, 2010  ～  Oct, 2010 | ■Project  Launching China Rakuten Marketplace ■Description  As the second international marketplace for Rakuten, delivering Web API based core system that provides China merchants with core features, such as generating shop or item page, page layout configuration and launching China Rakuten marketplace.  ■Engaged Phase  External Design, Internal Design, DB Design, Coding, Test ,Server Provisioning and Operation  ■Achievement  I achieve in Sales Force integration to help China merchants have quick start in China Rakuten Marketplace, that allow them to subscribe in Sales Force to open their shop in the marketplace automatically. Also by exposing WebAPI to China merchant, I helped them integrate their own system with the API to aggregate and analyze sales trend as per genre that encouraged them to plan next business action. | [OS]  Debian GUN/Linux5.0  [Language]  Java6  jax-ws  Struts2  Spring2  ibatis  [Middle Ware]  Oracle 10g,  memcached  Apache2.2  Tomcat6.0 | Tech Leader |
| Period | Project Summary | Technology Stack | Role |
| July, 2009  ～  Mar, 2010 | ■Project  Developing core system for International Rakuten Marketplace  ■Description  For quick launch to next Rakuten Marketplace, developing Web API based core system that provides International Rakuten Marketplace with core features based on the features implemented in Taiwan Rakuten Marketplace.  ■Engaged Phase  Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in refactoring Taiwan Rakuten Marketplace system by extracting core features as per business context such as merchant, product or order that could be globally used as WebAPI in where critical business logics were refactored or implemented. Also I planned how to migrate data to new system that prevented impacts to the service overall and guaranteed backward compatibility after the migration. | [OS]  Debian GUN/Linux5.0  [Language]  Java6  jax-ws  Struts2  Spring2  ibatis  [Middle Ware]  Oracle 10g,  memcached  Apache2.2  Tomcat6.0 | Tech Leader |
| Jun, 2008  ～  Jun, 2009 | ■Project  Developing additional features for Taiwan Rakuten Marketplace  ■Description Developing additional features that are equivalent to the features implemented in Japan Rakuten Marketplace such as promotion, subscription to increase the revenue in Taiwan Rakuten Marketplace  ■Engaged Phase  External Design, Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in redesign DB schema to satisfying three requirements, adopting sales promotion feature, generic schema to adopt future feature and DB load reduction. Also I enhanced API by adding new I/F for easy aggregation of sales promotion KPI. | [OS]  Debian  GUN/Linux4.0  [Language]  Java5  Struts2  Spring2  ibatis  [Middle Ware]  Oracle 10g,  memcached  Apache2.2  Tomcat5.0 | Tech Leader |
| Period | Project Summary | Technology Stack | Role |
| Dec, 2007  ～  May, 2008 | ■Project  Launching Taiwan Rakuten Marketplace  ■Description As the first international marketplace for Rakuten, developing newly designed system that provides Taiwan merchants with core features, such as generating shop or item page, page layout configuration and launching Taiwan Rakuten marketplace.  ■Engaged Phase  External Design, Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieve in distribution system design such as DB sharding as per service context, deploying content delivery server as per content ID range or adopting message driven asynchronized order placement to avoid missing critical operation, that all of the efforts successfully guaranteed system availability. | [OS]  Debian GUN/Linux4.0  [Language]  Java5  Struts2  Spring2  ibatis  [Middle Ware]  Oracle 10g,  memcached  Apache2.2  Tomcat5.0 | Tech Leader |

Jan, 2007～Mar, 2007 Accenture Technology Solutions, Fukuoka, Japan

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| Period | Project Summary | Technology Stack | Role |
| Jan, 2007  ～  Mar, 2007 | ■Project  Developing electric construction application system for Kyshu electric power company  ■Description  Developing web based electric construction application system that provides a request form to the clients.  ■Engaged Phase External Design  ■Achievement  I achieved in refining electric industry specific requirements and defined relations among the entities extracted from the requirements that was basis of data model concept design. | [OS]  WindowsXP  [Language]  Java5  [Middle Ware]  Oracle10g  IIS6.0  Tomcat5.0 | Tech Leader |

Apr, 2004～Nov, 2006　Hitachi Business International, Ltd, Tokyo, Japan

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| Period | Project Summary | Technology Stack | Role |
| Dec, 2005  ～  Nov, 2006 | ■Project  Developing expenses workflow system for Tokyo trading company ■Description  Developing SAP interacted expense workflow system that handles every single phase from reimbursement application to approval  ■Engaged Phase Requirement Definition, External Design, Internal Design, DB Design, Coding, Test, Server Operation  ■Achievement  I achieved in SAP integration with workflow specific framework (NTT Intramart) by making use of group of API (JavaConnector) provided from SAP and also conducting department code transform with new registration code for effective search function used in workflow. | [OS]  Windows2000  [Language]  Java5  NTT Intramart Framework  [Middle Ware]  MS-SQL2000  Apache2.0  Tomcat5.0 | Tech Leader |
| Sep, 2005  ～  Oct, 2005 | ■Project  Developing multi-language support Google interacted search system for Hitachi group ■Description  Developing multi-language support search system interacting with Google search API for Hitachi group  ■Engaged Phase  Requirement Definition, External Design, Internal Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in Google API integration design in terms of simple intercommunication and also by providing threshold of the number of thread to call Google API, it resolved the concern how to avoid high load caused by unexpected spike. | [OS]  Windows2000  [Language]  Java5  [Middle Ware]  Apache2.0  Tomcat5.0 | Tech Leader |
| Dec, 2004  ～  Jun, 2005 | ■Project  Developing international material procurement management system for Hitachi group ■Description  Developing a sub system of international material procurement management system with logistic feature for Hitachi group  ■Engaged Phase  Requirement Definition, External Design, Internal Design, DB Design, Test  ■Achievement  I achieved in working with offshore team as an liaison for seamless communication in English for giving clear understanding to requirements and also helped Japan DEV team get guided from MVC based implementation to how to logging that prevented many potential bugs. | [OS]  Windows2000  [Language]  C#  [Middle Ware]  IIS6.0  Oracle9i | Tech Leader |
| 期間 | Project Summary | Technology Stack | Role |
| July, 2004  ～  Nov, 2004 | ■Project  Developing fixed assets search web system for Hitachi group   ■Description  Developing web based fixed assets search system with enhanced features and migrating the legacy system to the new system.  ■Engaged Phase  Requirement Definition, External Design, Internal Design, DB Design, Coding, Test  ■Achievement  I achieved in migration to Web with search suggestion based on most recently used keywords that daily aggregated to DB that provided effective search function. | [OS]  Windows2000  [Language]  Java5   [Middle Ware]  Oracle9i  Apache2.0  Tomcat5 | Tech Leader |
| Apr, 2004  ～  Nov, 2005 | ■Project  Developing export audit support system for Hitachi group  ■Description  Developing web based audit support system that matches exported items to the item blacklist in Hitachi group  ■Engaged Phase  Requirement Definition, External Design, Internal Design, DB Design, Coding, Test, Server Provisioning and Operation  ■Achievement  I achieved in item data in blacklist transform to RDB with newly schema designed that brought effective search function and providing an automated method for updating the blacklist that allowed online update from business side. | [OS]  Windows2000  [Language]  Java5  [Middle Ware]  MS ACCESS  IIS6  Tomcat5 | Tech Leader |

Jan, 2000～ May, 2003 Samsung SDS, Seoul, Korea

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| Period | Project Summary | Technology Stack | Role |
| Mar, 2001  ～  May, 2003 | ■Project  Developing interior specific design CAD web system for kitchen vendor  ■Description For making delivering time shorter to customers visiting to a distributor, the web system was designed and developed on specialized in interior design with business support functions like online cost estimation and order placement築  ■Engaged Phase  Requirement Definition, External Design, Internal Design, DB Design, Coding, Test, Server Operation  ■Achievement  I achieved in migration to Web with Active X and WebDAV integration that enabled equivalent kitchen design features implemented in local app. | [OS]  Windows2000  [Language]  Visual C++ 6.0  ActiveX  [Middle Ware]  MS-SQL2000  IIS6 | Developer |
| Mar, 2000  ～  Feb, 2001 | ■Project  Developing kitchen specific design CAD package for kitchen vendor  ■Description For making delivering time shorter to customers visiting to a distributor, the CAD package was designed and developed on specialized in kitchen design with business support functions like online cost estimation and order placement.  ■Engaged Phase  Internal Design, DB Design, Coding, Test, Server Operation  ■Achievement  I achieved in kitchen data transform from paper to digital for sustainable contents management in DB that enabled easy kitchen design with real time cost calculation interacted with DB | [OS]  WindowsNT4  [Language]  Visual C++ 6.0  [Middle Ware]  MS ACCESS  IIS6 | Developer |