

Kenichi Takagiwa

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Education

2013-present **Master of Computer Science, Keio University** **Tokyo, Japan**

- Network systems, Deep Packet Inspection

2009-2013 **Department of System Design Engineering, Keio University** **Tokyo, Japan**

- Database Systems, Network Systems

Open Source Software Contribution

May 2014 - present **Contributor at Apache Spark**

- Apache Spark is a fast and general engine for large-scale data processing which was originally developed in AMPLab in UC Berkeley and became an apache top project since March 2014.
- Developed basic Python API for SparkStreaming with Tathagata Das, a Spark committer and Ph.d candidate in AMPLab. Python API for SparkStreaming has huge demand from Spark community because most Spark users, especially for data scientist, prefer python.

Publication

- Peer-reviewed International Conferences
[2] **Takagiwa, K.**; Ishida, S.; Nishi, H., "SoR-Based Programmable Network for Future Software-Defined Network," Computer Software and Applications Conference (COMPSAC), 2013 IEEE 37th Annual , vol., no., pp.165,166, 22-26 July 2013

[1] **Takagiwa Kenichi**; Kubo, Ryogo; Ishida, Shinichi; Inoue, Koichi; Nishi, Hiroaki, "Feasibility study of service-oriented architecture for smart grid communications," Industrial Electronics (ISIE), 2013 IEEE International Symposium on , vol., no., pp.1,7, 28-31 May 2013

Work Experience

August 2012 - present **Co-founder and Chief Architect at Codeal Inc.** **Tokyo, Japan**

- Launched three different job matching sites in the IT field: "Engineer Intern"(URL: <http://engineer-intern.jp/>), "Engineer Shukatu"(URL: <http://engineer-shukatu.jp/>) and "Engineer Tenshoku"(URL: <http://engineer-tenshoku.jp/>) .
- Developed and maintained the backend of three services on top of Amazon EC2 all by myself.
- The sites received 70,000 page views per month in each site.
- The company raised it status to "series A" and established relationships with over 260 IT companies including Japanese tech giants: LINE, Rakuten, DeNA etc...

August 2013 - July 2014 **Technical Intern in CVG and NOSTG at Cisco Systems Inc.** **California, USA**

- Manage the releases and builds for Application Policy Infrastructure Controller-Enterprise Module (APIC-EM), SDN controller application for enterprise, and maintain the development infrastructure to ensure seamless continuous integration inside Cloud Virtualization Group (CVG).
- Designed and developed continuous integration system and scalable update system for APIC-EM in CVG.
- Researched and developed the application "distributed network management system (Network Search)", which is integrated with Cisco OnePK in Network Operating System Technology Group (NOSTG).
- Collaborated with Distributed Data Management project in NOSTG and applied Network Search for IoE data analytics.
- Participated as a coordinator at the first external Cisco Hackthon during Cisco Live 2014.

April 2012 - July 2013 **Research Assistant at Nishi laboratory** **Tokyo, Japan**

- Researched the integration of NoSQL database with Service-oriented Router (SoR), with the goal of analyzing and storing packets on the router in order to provide customized service for each individual user.
- Evaluated various NoSQL databases: Kyoto Cabinet/Tycoon and LevelDB during the Service-oriented Router (SoR) research.
- Developed insert and select algorithms with SQL like interface with the support of two-dimensional search on top of Kyoto Cabinet/Tycoon. As result, the performance of the insertion queries was about 60 times faster than PostgreSQL.

August 2011 - September 2011 **Marketing Assistant at SunBridge Inc.** **California, USA**

- Interviewed with the CEOs of 20 IT startups as a part of marketing research project and discovered the latest trend of startup companies in Plug and Play Tech Center, an incubation center.
- Analyzed the incubation trend in Silicon Valley and recommended to improve environment to focus on serial entrepreneurs in order to get new residents in Plug and Play Tech Center.

April 2009 - August 2011

Web Creator at Burning Galaxy Inc.

Tokyo, Japan

- Developed and maintained a fund raising site for a non-profit organization (NPO). The site raised 1,150 dollars in 2010.
- Redesigned and implemented most of frontend of the site.
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Volunteer Experience

August 2013 – July 2014

Cisco Systems Inc.

California, USA

- Delivered a lecture and DEMO about APIC-EM, what Cisco is doing and history of Cisco to 60 promising university students, 30 entrepreneurs and 15 CEOs and board members of Japanese companies in Cisco campus.
- Delivered bicycles to kids in a charity event which is hold by Turning Wheels for Kids.

March 2011

Burning Galaxy Inc.

Tokyo, Japan

- Launched a web site to raise money for the relief of the Great East Japan Earthquake and the subsequent tsunami.
- Promoted the site on Facebook, Twitter, and more in order to influence to more people.
- Raised 600 dollars donation and gathered over 100 messages for the victims of the disaster in two weeks.
- Visited the suffering areas in order to deliver messages in hand and inspect the damage of the disaster.

Teaching Experience

August 2014

Summer session for high school students at Keio University

Tokyo, Japan

- Taught basic circuit fabrication and programming for making digital insects.

Skills

- Experienced in web application, smart phone application, web design and distributed system
- Proficient in C/C++, Python, PHP, JavaScript, SQL, HTML, CSS, Adobe Photoshop, Adobe Illustrator, and Adobe Dreamweaver, Adobe After Effect, Adobe Premiere
- Operating System: Unix, Windows, and Macintosh

Activities (Leadership)

2012

Co-founder and the President of Keio Oversea Study Advisory Community

Tokyo, Japan

- Organized an on-campus info-session for students who seek to obtain a Ph.D. or Masters degree in the U.S., which was participated by about 200 students.
- Invited lecturers from MIT, UCB, and Caltech to talk in the event.

2011

President of Communication Platform between Businessmen and Students

Tokyo, Japan

- Revitalized the group from scratch and led 10 students as a president.

2010

President of the Keio Internet Business Group

Tokyo, Japan

- Learned about business on the Internet and then taught younger students how to create a web service themselves.