

# Kenichi Takagiwa

Tokyo JAPAN

Mobile \*-\*-\* , if you want to contact me contact via facebook, please

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## Education

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|---|---|---------------------|
| <b>2013-present</b>   | <b>Master of Computer Science, Keio University</b>              | <b>Tokyo, Japan</b> |
| <ul style="list-style-type: none"><li>• Network systems, Deep Packet Inspection</li><li>• Leave of absence August 2013- July 2014</li></ul> |   |                     |
| <b>2009-2013</b>  | <b>Department of System Design Engineering, Keio University</b> | <b>Tokyo, Japan</b> |
| <ul style="list-style-type: none"><li>• Database Systems, Network Systems</li></ul>   |   |                     |

## Open Source Software Contribution

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|---|------------------------------------|
| <b>May 2014 - present</b>   | <b>Contributor at Apache Spark</b> |
| <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul> |                                    |

## 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

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|---|--|------------------------|
| <b>August 2012 - present</b>  | <b>Co-founder and Chief Architect at Codeal Inc.</b>           | <b>Tokyo, Japan</b>    |
| <ul style="list-style-type: none"><li>• Launched three different job matching sites in the IT field: "Engineer Intern"(URL: <a href="http://engineer-intern.jp/">http://engineer-intern.jp/</a>), "Engineer Shukatu"(URL: <a href="http://engineer-shukatu.jp/">http://engineer-shukatu.jp/</a>) and "Engineer Tenshoku"(URL: <a href="http://engineer-tenshoku.jp/">http://engineer-tenshoku.jp/</a>) .</li><li>• Developed and maintained the backend of three services on top of Amazon EC2 all by myself.</li><li>• The sites received 70,000 page views per month in each site.</li><li>• The company raised it status to "series A" and established relationships with over 260 IT companies including Japanese tech giants: LINE, Rakuten, DeNA etc...</li></ul>   |  |                        |
| <b>August 2013 - July 2014</b>  | <b>Technical Intern in CVG and NOSTG at Cisco Systems Inc.</b> | <b>California, USA</b> |
| <ul style="list-style-type: none"><li>• 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).</li><li>• Designed and developed continuous integration system and scalable update system for APIC-EM in CVG.</li><li>• Researched and developed the application "distributed network management system (Network Search)", which is integrated with Cisco OnePK in Network Operating System Technology Group (NOSTG).</li><li>• Collaborated with Distributed Data Management project in NOSTG and applied Network Search for IoE data analytics.</li><li>• Participated as a coordinator at the first external Cisco Hackthon during Cisco Live 2014.</li></ul> |  |                        |
| <b>April 2012 - July 2013</b>   | <b>Research Assistant at Nishi laboratory</b>                  | <b>Tokyo, Japan</b>    |
| <ul style="list-style-type: none"><li>• 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.</li><li>• Evaluated various NoSQL databases: Kyoto Cabinet/Tycoon and LevelDB during the Service-oriented Router (SoR) research.</li><li>• 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 PostgrSQL.</li></ul>   |  |                        |
| <b>August 2011 - September 2011</b>   | <b>Marketing Assistant at SunBridge Inc.</b>                   | <b>California, USA</b> |
| <ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>  |  |                        |

**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.

## **Teaching Experience**

**August 2014**

**TA in Summer session for high school students at Keio University**

**Tokyo, Japan**

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

**November 2012**

**TA in Electric engineering at Yokohama Science Frontier High School**

**Kanagawa, Japan**

- Taught basic circuit theory and programming using Arduino.

## **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.

## **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.