

# Kenji Rikitake

Senior Software Engineer at Basho Technologies, Inc

kenji.rikitake@acm.org

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## Summary

Kenji Rikitake has been solving the security, management, and operational issues of computer networks as a professional engineer of Internet since 1990. His background has gone from operating system internals and Internet foundation protocols to distributed system security and Erlang/OTP concurrent programming system.

Specialties: Erlang/OTP, FreeBSD, Internet protocols, IPv6, Internet applications, DNS, DNSSEC, HTTP, Email, Operating system internals, C, awk, Perl, Python, Internet systems management, Internet security

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## Experience

### **Senior Software Engineer at Basho Technologies, Inc**

February 2013 - Present (4 months)

Riak, Riak CS, their Enterprise Editions, and other distributed database product development and engineering; engineering sales support, development operation, and every other mission in Basho Japan KK / Basho Technologies.

### **Committee Member at ACM SIGPLAN Erlang Workshop Steering Committee**

October 2011 - Present (1 year 8 months)

Workshop schedule management, organizing the steering and program committees, promotion of the workshop, conference paper review and editing.

### **Professor at Kyoto University**

April 2010 - January 2013 (2 years 10 months)

Professor at IT Planning Office, Institute for Information Management and Communication (IIMC); strategic planning and consulting of engineering for Internet, information, and computer security of the information infrastructure of Kyoto University, including that of the campus network and information systems.

Also: Professor, Information Security Laboratory, Collaborative Research Laboratories, Academic Center for Computing and Media Studies (ACCMS) (in accordance with IIMC); performing research activities of Erlang/OTP, including the SFMT and TinyMT libraries.

### **General Chair at ACM SIGPLAN Erlang Workshop 2011**

November 2010 - October 2011 (1 year)

Workshop schedule management, organizing the steering and program committees, promotion of the workshop, conference paper review and editing. (The event was held on September 23, 2011.)

*5 recommendations available upon request*

**Associate Editor at IEICE**

May 2007 - May 2010 (3 years 1 month)

Associate Editor of IEICE Transactions of Communications, reviewing and editing the journal and the submitted paper drafts.

**Expert Researcher at NICT**

April 2005 - March 2010 (5 years)

Research and development of computer and network security, including: DNS reliable transport protocols, Erlang concurrent programming system and security, NGN/IPv6 protocol reinforcement.

Technology consultant for the protocol security issues and policy development on NGN, IPv6, and DNS designs.

Technology consultant for development of "nicker" computer/Internet Security Incident analysis system for large-scale Internet service providers, including the system architecture development.

**Senior Research Engineer at KDDI R&D Labs**

January 2001 - March 2005 (4 years 3 months)

Joint research management with academic organizations, as well as forming research projects and acting as a part of the driving force, from writing actual codes to publishing research papers.

**Staff Engineer at TDI Co., Ltd.**

April 1992 - December 2000 (8 years 9 months)

Manager at the Research Center of Advanced Computer Networking Technologies in Kyoto, Japan (closed December 2000), as well as the corporate Internet architect and network security manager.

**Engineer at Digital Equipment**

April 1990 - April 1992 (2 years 1 month)

Working at Digital Equipment Corporation Japan R&D Center; VMS Engineering, VMS/Japanese kit building management, specialized in SMGRTL screen management library Asia-nization project. Also involved in the corporate TCP/IP Internet activities.

**Assistant Systems Administrator at TWICS**

1987 - 1989 (2 years)

VAX/VMS systems management and programming, computer network management and design

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**Skills & Expertise**

<b>Erlang</b>	(Advanced, 4 years experience)
<b>FreeBSD</b>	(Expert, 15 years experience)
<b>DNS</b>	(Expert, 20+ years experience)
<b>Fluent English</b>	(Expert, 20+ years experience)

<b>Internet Security</b>	(Expert, 14 years experience)
<b>IPv6</b>	(Advanced, 17 years experience)
<b>C</b>	(Expert, 20+ years experience)
<b>Perl</b>	(Advanced, 15 years experience)
<b>Python</b>	(Intermediate, 3 years experience)
<b>Awk</b>	(Expert, 20+ years experience)
<b>Operating System Internals</b>	(Expert, 20+ years experience)
<b>UNIX Administration</b>	(Expert, 20+ years experience)
<b>IPv4</b>	(Expert, 20+ years experience)
<b>Information Security Management</b>	
<b>TCP/IP</b>	(Expert, 20+ years experience)
<b>Programming</b>	(Expert, 20+ years experience)
<b>Operating Systems</b>	(Expert, 20+ years experience)
<b>Vim</b>	(Advanced, 20+ years experience)
<b>Emacs</b>	(Advanced, 20+ years experience)
<b>Japanese</b>	(Expert, 20+ years experience)
<b>French</b>	(Intermediate, 20+ years experience)
<b>Korean</b>	(Intermediate, 20+ years experience)
<b>AVR</b>	(Intermediate, 4 years experience)
<b>AVR Studio</b>	(Intermediate, 4 years experience)
<b>Arduino</b>	(Intermediate, 3 years experience)
<b>LaTeX</b>	(Advanced, 19 years experience)
<b>Distributed Systems</b>	
<b>Network Security</b>	
<b>Computer Science</b>	
<b>Concurrent Programming</b>	
<b>IP</b>	
<b>Shell Scripting</b>	
<b>English</b>	

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## Certifications

### **Gijyutsushi (Gov't certified Professional Engineer in Japan) (Information Engineering)**

IPEJ License 45374 March 2001

### **Japan Amateur First-Class Radio Operator**

Ministry of Internal Affairs and Communications, Japan January 2003

### **US FCC Amateur Radio License (Amateur Extra Class)**

US FCC February 2003 to May 2017

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## Languages

**Japanese** (Native or bilingual proficiency)

<b>English</b>	(Native or bilingual proficiency)
<b>French</b>	(Elementary proficiency)
<b>Korean</b>	(Elementary proficiency)

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## Education

### **Osaka University**

Ph.D, Information Science and Technology, 2002 - 2005

### **The University of Tokyo**

M. Eng., Information Engineering, 1988 - 1990

Activities and Societies: Information Processing Laboratory, Graduate School of Information Engineering, University of Tokyo

### **The University of Tokyo**

B. Eng., Instrumentation Physics, 1984 - 1988

Activities and Societies: Dept. of Instrumentation Physics, Faculty of Engineering, University of Tokyo

### **Musashi Senior High School**

1981 - 1984

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## Honors and Awards

ACM Senior Member since 2009

IEICE Senior Member since 2010

Best Paper Award for IPSJ Annual Convention in September 2001

IEICE Communications Society Distinguished Contributions Award 2010

## Interests

Computer/software/network engineering, Internet, electronics, amateur radio, Morse code, music

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## 5 people have recommended Kenji

"I was the workshop chair for last year's (2010) ACM SIGPLAN Erlang Workshop and program committee member for this year, Kenji's efforts as the workshop chair for 2011 workshop created a wonderful workshop experience. Attendance in 2011 set a new record, and everything associated with the workshop before, during, and afterward were smooth as glass. Behind the scenes and a full year in advance, Kenji was a shepherd for all of us program committee members. All tasks, however small, were well done and on time. Many thanks for all of the excellent work and for setting a new standard for years to come."

— **Scott Fritchie**, *Senior Software Engineer, Basho Technologies*, worked directly with Kenji at ACM SIGPLAN Erlang Workshop 2011

"I worked with Kenji-san in the role of steering committee when he was program chair for the ACM SIGPLAN Yokyo Erlang workshop in 2011. It was the first time the workshop was held in Asia, and we were concerned. He did a fantastic job in engaging the local Erlang community, soliciting papers and creating the perfect mix between academics and commercial users of functional programming. The event was extremely well organised and managed thanks to his attention to detail and determination."

— **Francesco Cesarini**, *Technical Director, Erlang Solutions*, was with another company when working with Kenji at ACM SIGPLAN Erlang Workshop 2011

"Kenji did an amazing job arranging the 2011 Erlang Workshop in Tokyo. Arrangements such as location, venue, accommodations, lunches, refreshments, and the after-workshop party were all excellent. This workshop had the highest attendance of any ACM Erlang Workshop to date, and that, combined with the fact that Kenji made it all look so easy, is remarkable given the significant earthquake that hit Japan in March 2011. That event no doubt made Kenji's task much more difficult than it should have been, but he carried through and didn't let it affect the high quality of the event he ultimately delivered."

— **Steve Vinoski**, *Architect, Basho Technologies*, was with another company when working with Kenji at ACM SIGPLAN Erlang Workshop 2011

"Starting as early as late 2010 and ending in September 2011 when the actual event took place, Kenji Rikitake did an amazing job in organizing the ACM SIGPLAN Erlang Workshop in Tokyo. The actual event was not only as smooth as it could be, but it was educational to see how a General Chair who is fully committed to his duties can do an extraordinary job in taking care of the even the smallest details in an event which unfortunately was scheduled to take place in a very difficult period for Japan. Very well done!"

— **Kostis Sagonas**, *Associate Professor, Uppsala University*, worked directly with Kenji at ACM SIGPLAN Erlang Workshop 2011

"As general chair, Kenji organised an excellent Erlang workshop in Tokyo in September 2011. Working with the programme committee and programme chair, Erik Stenman, the presentations and posters at the workshop were of a very high standard, and the local arrangements for the meeting were flawless. Kenji's publicity for the meeting ensured the highest attendance that the workshop has ever had, and this in a year of all the difficulties after the tsunami."

— **Simon Thompson**, *Professor of Logic and Computation, Computing Laboratory, University of Kent*, was with another company when working with Kenji at ACM SIGPLAN Erlang Workshop 2011

[Contact Kenji on LinkedIn](#)