

Shane Kerr

Bennebroekstraat 17-I
1058 LJ Amsterdam
The Netherlands

M: +31 64 633 6297

shane@time-travellers.org

Professional experience

Afilias Canada Corp., Toronto, Ontario

Developer, CPR, March 2008 – April 2009

- Evaluated and deployed DNSSEC software for signing ORG
- Designed and implemented DNS metadata SQL propagation system
- Identified and fixed bugs in DNS software (BIND, NSD, and PowerDNS)
- Built tools to find and diagnose DNS network and system problems
- Participated in various forums to represent Afilias' interests

Internet Systems Consortium (ISC), Redwood City, California

Software Engineer, March 2006 – February 2008

- Develop and maintain ISC DHCP software, including implementing DHCPv6.
- Develop and maintain BIND (DNS software).
- Maintain IRRToolSet (routing registry software).
- Participate in IETF for new DNS and DHCP protocol standards.

RIPE Network Coordination Centre (RIPE NCC), Amsterdam

Software Engineering Department Manager, January 2004 – Present

- Manage team of 12 software engineers, and 2 user support specialists.
- Interact with RIPE community, presenting database and software updates.
- Prioritize software projects for internal and external customers.
- Direct purchasing and implementation of off-the-shelf solutions.

Database Department Manager, January 2003 - December 2003

- Manage team of 5 database software engineers.
- Interact with RIPE community, presenting database updates.

Senior Database Software Engineer, July 2001 - December 2002

- Organize on-going software development improvements, resulting in improved documentation and reproducible development.
- Initiated software testing procedures, resulting in improving reliability and confidence of software.
- Provide user support, both internal and external.
- Maintain database software.
- Administer database.

Database Software Engineer, July 2000 - July 2001

- Database administration, including MySQL administration, Perl and shell scripting for various projects, monitoring and fixing problems.
- Provided user support, answering e-mails concerning problems with updating, accessing, and using the RIPE database, as well as the related policies.
- Finalize development of new RIPE Whois database.

American Registry for Internet Numbers (ARIN), Chantilly, Virginia Senior Software Engineer, August 1999 - July 2000

- Liaison between President and engineering staff.
- Recommended and assigned projects to specific engineers.
- Responsible for planning and time-lines.
- Tracked and reported projects' status.
- Organized design meetings, code reviews, internal training, and so on.
- Initial point of contact for information requests, reports, new tools.
- Designed, implemented and maintained software and systems.

Software Engineer, November 1998 - August 1999

- Designed, implemented, and maintained software and systems.

Call Technologies, Inc., Reston, Virginia

Systems Programmer, May 1993 - November 1998

- Wrote communication protocols, API's, and programs.
- Wrote and designed telephony and messaging applications and utilities.
- Installed systems on site, both in the USA and Europe.
- Delivered technical presentations to customers and trainees.

Publications and Recent Presentations

- ORG DNSSEC Status (Presentation at IEPG, November 2008)
- IRRToolSet Update (Presentations at UKNOF 12, February 2009, and RIPE 57, October 2008)
- IETF Response to the Kaminsky DNS Vulnerability, *IETF Journal Volume 4 Issue 2 (October 2008)*
- IETF Support for IPv6 Deployment, *IETF Journal Volume 3 Issue 2 (October 2007)*
- RFC 4698 – IRIS: An Address Registry (areg) Type for the Internet Registry Information Service (October 2006)

While a manager at the RIPE NCC presentations were given at least 3 times per year to the RIPE community.

Professional Training

Time and Priority Management, Learning Tree, June 2005

Java Programming, Learning Tree, April 2005

Using Microsoft Project, November 2004

Project Leadership, Management and Communications, June 2003

Software Quality Assurance, Learning Tree, June 2002

Software Testing and Inspection Methods, Learning Tree, November 2001

Software Requirements and Prototyping, George Mason University, Fall term 1999

Education

Master of Science in Computer Science, graduated May 1998
George Mason University, Fairfax, Virginia, US

Bachelor of Science in Computer Science, graduated May 1993
Virginia Polytechnic Institute and State University, Blacksburg, Virginia, US

Additional Information

American Citizen living in Amsterdam for 8 years.
Working from home for since March 2006.
Speaks English and Dutch.