

Timothy Keith

Contact Information

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Summary

- Expert in object-oriented design and Java
- Extensive experience in compiler implementation
- Strong analytic skills and ability to learn new technologies
- Record of technical leadership and mentoring more junior programmers
- Broad range of experience in all phases of the software development lifecycle
- Excellent written and oral communication skills
- Experienced in agile and test-driven processes

Professional Experience

Technical Lead and Senior Software Engineer, IBM

2003 – 2015

- Investigated use of Linux container technology to IBM products (2014-2015)
 - Created Docker images for IBM UrbanCode Deploy and other products
 - Investigated use of Kubernetes for orchestrating Docker deployments
 - Technologies: Docker, Linux, Vagrant, bash, Groovy, Java, IBM Bluemix, Google Compute Engine, git, github, Jenkins, nginx, UrbanCode Deploy
- Architect and technical lead for IBM Installation Manager (2006-2014)
 - Participated in the design and implementation of the tool currently used by more than 350 IBM products for installation, updates, and configuration
 - Drove high quality and maintainability through extension automated tests and static code analysis
 - Met rigorous requirements for reliability and backward compatibility
 - Helped to drive the adoption of this new installation technology across brands within the IBM Software Group
 - Supported internal community of users creating installation packages and external customers making use of them
 - Used an Agile process to produce on-time external releases every quarter and internal releases every day.
 - Technologies: Java, Eclipse, Ant, Rational Team Concert, XML, REST, web services
- Technical lead for Rational Product Updater (2004-2006)
 - Designed a service strategy for IBM Rational's Eclipse-based products
 - Led the implementation of a tool used to implement that strategy, by applying updates to those products and some products from other brands with IBM
 - Worked with product teams to develop their process for creating and publishing their updates and fixes
 - Technologies: Java, Eclipse, CVS
- Main developer for build tooling for Rational XDE (2002-2004)
 - Improved and maintained automated build tooling for Rational's flagship modeling product
 - Supported build and release teams with advice and fixes to ensure smooth product release process
 - Designed an automated process for identifying and extracting translatable content to reduce time and errors in created translated and pseudo-translated builds
 - Technologies: Perl, Java, CVS

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Additional Professional Experience

Senior Software Engineer, Rational Software

- Led the integration of the Rational Ada compiler front-end with Verdex back-end
- Led the Rational C++ compiler team
- Worked on a "clean room" Java compiler implementation
- Technologies: C++, C, Java, Ada, Windows

Software Engineer, Verdex Corp.

- Contributed to the development of the Verdex Ada compiler
 - Developed the i386 back-end
 - Developed the SPARC back-end
 - Contributed many improvements to the back-end technology
 - Contributed to the intermediate code optimizer
- Improved automation infrastructure
- Technologies: C, Ada, scripting

Education

M.S. Computer Science, University of Wisconsin-Madison
M.A. Mathematics, University of Wisconsin-Madison
B.Sc. Mathematics, University of Toronto