Timothy Keith

Contact Information

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Objective

To work with smart people on challenging software problems.

Professional Experience

Senior Software Engineer, IBM
2003 – 2015

- Investigated use of Linux container technology to IBM products (2014-present)
  - Created Docker images for IBM UrbanCode Deploy and other products
  - Investigated use of Kubernetes for orchestrating Docker deployments
  - Worked in Linux, bash, Groovy, Java, IBM Bluemix, git
- Architect and technical lead for IBM Installation Manager (2006-2014)
  - Participated in the design and implementation of the tool currently used by more that 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.
  - Worked in Java, Eclipse, Ant, Rational Team Concert
- Technical lead for Rational Product Updater (2004-2006)
  - Designed a service strategy for IBM Rational's Eclipse-based products
  - Lead 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
  - Worked in 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
  - Worked in Perl, Java, CVS

Senior Software Engineer, Rational Software
1994 – 2003

- Lead the integration of the Rational Ada compiler front-end with the Verdix back-end
- Lead the Rational C++ compiler team
- Worked on a "clean room" Java compiler implementation
- Worked in C++, C, Java, and Ada

Timothy Keith

Software Engineer, Verdix Corp.
1985 – 1994

- Contributed to the development of the Verdix 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
- Worked in C, Ada, scripting

Education

M.S. Computer Science, University of Wisconsin-Madison, 1985
M.A. Mathematics, University of Wisconsin-Madison, 1985
B.Sc. Mathematics, University of Toronto, 1981