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## **Technical Summary**

**Languages:** C, Shell Scripts, Java, Javascript, HTML, Ruby

**Operating Systems:** UNIX (Linux, AIX), Mac OS X

**Tools:** git, Gerrit, Jenkins, CVS, CMVC, make

**Other:** MySQL, JDBC, Java Swing

**Patents:** Bradford, David, et al. 2013. Recoverability While Adding Storage To a Redirect-On-Write Storage Pool. U.S. Patent 8,402,230, filed September 10, 2010, and issued March 19, 2013.

## **Professional Experience**

*Staff Software Engineer, IBM; Austin, TX, 2009 - Present*

- Member of a team of twelve to develop a redirect-on-write, clustered filesystem with a built-in volume manager. The filesystem was used as the basis for an IBM Storage Virtualization tool.
- Designed, implemented, tested and debugged AIX kernel extension code, mostly focusing on the Volume Manager and IO layers of the filesystem.
- Implemented and migrated team to a git, Gerrit and Jenkins setup for source code control, code reviews and continuous integration. Also trained team on the use of these tools.
- Provided guidance to the AIX organization as a contributing member of various groups to investigate best practices, tools and industry standards in areas including: source code control, agile development and automated test strategies.

**Technologies Used:** AIX, C, ksh, git, Gerrit, Jenkins, make

*Software Engineer, IBM, Austin; TX, 2006 - 2009*

- Designed and developed new features for the AIX Logical Volume Manager.
- Added features including tools to improve first failure data capture, improve serviceability, and provide new disk allocation policies.

**Technologies Used:** AIX, C, ksh, CMVC

*Extreme Blue Technical Intern; Austin, TX, Summer 2005*

- Worked in a group of four to design and implement a web service architecture for telephony services.
- Developed several proof-of-concept applications to demonstrate the use of the developed web services.

**Technologies Used:** Java, JavaScript, AJAX, JSP, HTML

*Computer Professional, Eccles Health Science Library; Salt Lake City, UT, 2000 - 2001*

- Used Java and Javascript to create and enhance tools to help the education of medical students.

**Technologies Used:** Java, Javascript, MySQL, JDBC, Swing

## **Volunteer Experience**

*Austin Lindy Exchange Web Master, Austin Swing Syndicate; Austin, TX, 2009*

- Wrote the registration website for the Austin Lindy Exchange.
- Included participant registration system, PayPal payment processing, and exporting registration information to Excel spreadsheets.

**Technologies Used:** Ruby, Rails, PayPal

## **Education**

University of Utah, Salt Lake City, UT  
Bachelor of Science, Computer Science, 2005