

Xinghan Cui

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Education

Northeastern University, Boston, MA September 2008 - Present
Master of Science in Computer Science, December 2010

Beijing Institute of Technology, Beijing, China September 2003 - July 2007
Bachelor of Science in Computer Science, July 2007

Knowledge and Skills

- Languages: C, Python, Java, C++, C#, Linux Shell, Perl, 8086 Assembly.
- Tools: Eclipse, Visual Studio, GCC, GDB, Perforce, Git, SVN.

Work Experience and Internship

VMware, Inc. Cambridge, MA, internship June 2010-August 2010

- Implemented performance regression checker in Python. Implemented using PEP8 coding style and source control used Perforce.
- Developed multiple improvements to a test framework for Mobile Virtualization team in Python, using Mako template language and XML.
- Implemented JQuery-based results visualization tool that interfaced with Django framework and source control using Git.
- Worked with engineers in code reviews, and tested using virtual machine on embedded mobile development board.

EMC Southborough, MA, internship May 2009-December 2009

Design and Implementation

- Implemented CIFS performance counter for “Celerra” namespace in DART (Celerra’s kernel) using C++, which counts the number of connections in namespace.
- Developed a Unit Test Framework for DART in Python which read all parameters from configuration files and executes all test commands according to the internal interface and business logic.
- Designed and implemented top file system synchronization and created cross data mover junction point user command line in Linux shell.

Testing and Integration Demos

- Integrated Namespace feature with Virtual Machine according to the virtual NAS system structure, on VMware ESX server and Workstation.
- Coordinated development team and QA team in each code drop. Fixed bugs claimed by QA. Reproduced bugs to other developers, and integrated internal interfaces to help QA with integration testing.

MIGO Corporation, Beijing, China, full-time July 2007-June 2008

- Established the English version of “Intel Developer Forum Registration” website in .NET framework using C#. Designed and implemented database using SQL Server.

Academic Projects

- Developed a DBMS in Java including Socket programming and GUI design.
- Developed a website in ASP.NET, using C #, JavaScript, SQL Server and XML.
- Implemented a FAT file system in C language, including basic Linux file system functionalities.
- Implemented LRU page replacement algorithm in C language.