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Technical Skills

- * Python, Ruby, Perl
- * Cocoa/Objective-C
- * VC++, GNU/gcc, C++ Standard Library
- * Linux, Windows, OS X
- * Agile Software Development, Test Driven Development

Professional Experience

2003 -- Present Doug Fort Consulting Programmer, Arlington VA

SpiderOak online storage sharing and backup. Extensive Python development and refactoring.

'Arthur' World Class Data Warehousing project. I developed 100% fault-tolerant back-end distributed processes in Python with 'C' extensions to handle 1 billion events per day over 50 grid nodes.

During this period I have also developed production code in Cocoa/Objective-C and Ruby.

2002 -- 2003 Visual Networks, Rockville, MD

Worked extensively with .NET using C#. Developed a series of class library assemblies as components, using NUnit for unit tests and log4net for logging. This culminated in a .NET Remoting interface for external dynamic access. I researched WebServices, but found Remoting preferable for this application.

Developed network monitoring software for Windows 2000 and Linux. Extensive use of Visual C++ and GNU/gcc with GNU Autotools. Used CPPUnit for unit testing and Doxygen for documentation. Used the Apache/Xerces XML parser extensively. Developed sophisticated log analysis text-processing programs in Python and Perl.

2001 -- 2002 Aurora Biometrics, Gaithersburg, MD

Developed face detection and recognition algorithms and implemented them in software using Visual C++ on Windows 2000. Developed supporting infrastructure for network enabled security system. All GUI and text processing code was done in UTF-8 (Unicode).

1998 -- 2001 Downright Software LLC, Laytonsville, MD

Python on Linux and Windows 2000. Developed load generation and control agents for website load testing ([StressMy Dot Com](http://StressMyDotCom.com)). The load generation agents negotiate as peers to deliver loads required by management agents. ([pyAgent](http://pyAgent.com)). In developing these agents, I identified some minor bugs in the Python Library and submitted patches to correct them. I also initiated an open source development project for asynchronous http clients, a key part of the StressMy.com infrastructure ([asynchttp](http://asynchttp.com))

EDUCATION

BS, Mathematics Michigan State University, East Lansing MI, (Minor in Philosophy/Logic)

4 years active duty U.S. Army