Pete Ware

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Summary

Technical lead with very strong C++, Python, and Linux experience (see the lengthy table of skills on last page).

Expertise

- C++: Used on a daily basis for 14 years
- Python: Used on a daily basis for 8 years
- Linux: Fluent with all Unix/Linux utilities including Bourne/Bash & C shell scripts
- C#: Used daily for the past year.
- Object oriented programming and design
- Qt multi-platform user interface toolkit
- Django, Ajax, jQuery
- Distributed operating systems, networking, TCP/IP

Experience

Credit Suisse **October 2007 – December 2008** **Manhattan, NY**

- Vice President in Derivatives IT for Risk
- Support and development of a distributed calculation, risk, and trade engine
- The software manages a wide variety of fixed income and derivative businesses including EM, IR Swaps, Bonds, and Credit Derivatives
- Development was in a C# and .Net environment

NYSE Group/SIAC **October 2004 – October 2007** **Brooklyn, NY**

- Technical Director for Display Book's specialist trading engine user interface
- Designed and implemented new graphical interface while maintaining compatibility with old interface
- Designed new analysis engine for reviewing trading activity that was ten times faster then previous engine, delivered twice as much information, and added real time monitoring to what was previously end of day functionality Managed a team of 12 to deliver product in a very short time frame
- Lead team of 5 to port 600K lines of legacy C++ from HP-UX to SuSE Linux

Interhack Corporation **July 2002 – June 2004** **Columbus, OH**

- Interhack is a network security and computer forensics company
- Researched and developed software (C++, gui, 15,000 lines) to validate audio CDs for litigation involving copy protected CDs. This used direct ATAPI calls to bypass the operating system and interact directly with the CDROM drives in order to verify Red and Yellow book compliance. Portable to Solaris, FreeBSD, and Linux systems
- Developed many python based forensic tools for examining hard drives (at the sector level), recovering deleted files, analyzing thousands of email messages and parsing logs files for investigations into system security violations
- Developed python based tools for distributed, brute force, password attacks to successfully expose client web site vulnerabilities
- Audited client application code (Java, C) and worked with developers to guide their improved application security
- Performed network security assessments and pentration testing for regional banks

Starbak Communications **October 2001 – July 2002** **Columbus, OH**

- Starbak developed a Linux based appliance for video streaming and teleconference re-broadcasting
- Director of Engineering
- Managed 20 developers organized into four teams: user interface with Java & Php, streaming video engine via RTSP for Real, Quicktime, MP3, MPEG 1 and MPEG 4, streaming video that was Microsoft Media server compatible, and a streaming media caching engine
- Worked on RTSP server (C based) that resulted in a 10 fold improvement in the number of connections and a 300% increase in maximum bandwidth
- Worked with OEMs to deploy software on newly developed hardware
- Implemented test suite in Python
- Introduced C++ and STL to development environment
- CVS based revision control

The Ohio State University **Sept. 1998 – June 2001** **Columbus, OH**

- Lecturer in Computer Science

Biosym Technologies **June 1990 – Sept. 1991** **San Diego, CA**

- Rewrote user interface to use X11/Motif instead of Silicon Graphics' Graphics Library (OpenGL)

SAIC **Sept. 1986 – June 1990** **San Diego, CA**

- Designed and lead development of highly successful interactive tool for analyzing seismic data
- Designed and developed distributed communication system based on TCP/IP
- Ingres/Oracle application development
- Implemented software configuration management to support multiple releases on multiple platforms
- Unix system administration, hardware maintenance and system integration

Artecon Inc. **Feb. 1985 – Sept. 1986** **San Diego, CA**

- Implemented GKS logical input devices (level 2C)
- Maintained large Yacc based grammar for CAD drafting system

Education

Interhack Corporation **July 2003** **Columbus, OH**
CISSP (Certified Information Systems Security Professional)

The Ohio State University **Dec 1992** **Columbus, OH**
MS, Computer Science

University of California, San Diego **June 1985** **San Diego, CA**
BA, Computer Science

Teaching at The Ohio State University

- CIS 660, *Operating Systems:* OS theory. Course coordinator
- CIS 662, *Operating Systems Lab:* OS labs based on Linux kernel. Course coordinator
- CIS 560, *Systems Software:* Large software engineering project
- CIS 459.22, *C++:* Course coordinator
- CIS 360, *Computer Architecture:* SPARC assembly language
- CIS 230, *Introduction to C++:* Course coordinator

Teaching at Interhack Corporation

- *Forensic Computing:* A two day training course on forensic computing techniques
- *Surviving the Attack:* Incident response handling. A three day course part of ISSA, ISACA, and InfraGard INFOSEC Forum IV
- *Certified HIPAA Security Professional (CHSP).* A three day program covering HIPAA regulations with respect to information security

Publications

- *Low Latency Message Passing on Workstation Clusters using SCRAMNet*, International Parallel Processing Symposium (IPPS'99), April 99, pp. 148-152
- *Low Latency Message-Passing for Reflective Memory Networks,* International Workshop on Communication, Architecture, and Applications for Network-Based Parallel Computing (CANPC '99), Jan 1999, pp. 211-224
- *Automatic Modeling of File System Workloads Using Two-level Arrival Processes*, ACM Transactions on Modeling and Computer Systems (TOMACS), July 1998, pp 305 – 330
- *Modeling file-system input traces via a two-level arrival process*, Winter Simulation Conference, 1996, pp 1230 – 1237
- *Input modeling when simple models fail*, Winter Simulation Conference, 1995, pp 93-100
- *The Xt Intrinsics FAQ*, posted monthly to `comp.windows.x`

Awards and Activities from Ohio State

- *President's Salute to Teaching Award*, 1999, 2000, 2001
- *Outstanding Service Award*, 1997
- *Computer Committee*, 2001
- *Web Site Design Subcommittee*, 2001
- *Faculty Search Committee*, 1994-1998
- *Long Range Computer Planning Committee*, 1995
- *Graduate Student Orientation*, 1992-1997
- Organized *Annual CIS Department Party*, 1993-1997

Professional Organizations

- Association for Computing Machinery: 15 years
- IEEE Computer Society: 10 years

Skills

Skill	Low	Med	High	Skill	Low	Med	High
Apache		M		OO/Object Oriented Design			H
Ajax		M		Oracle	L		
Bourne/Bash&csh shell scripts			H	Perl	L		
C#			H	Php	L		
C++			H	PostgreSQL	L		
C			H	Python			H
Cryptography		M		Qt			H
Computer Forensics			H	SIP	L		
Django			H	RTSP			H
Mercurial,Subversion			H	Scheme		M	
Filesystems			H	SOAP	L		
FreeBSD			H	Solaris		M	
H.323		M		SQL		M	
HPUX		M		Stochastic Processes	L		
HTML			H	STL			H
HTTP		M		TCP/IP			H
Information Security			H	TeX & Latex			H
Java	L			Parallel Processing (threads)		M	
JavaScript		M		UML		M	
jQuery		M		Unix			H
Linux			H	X11			H
Linux Device Drivers	L			XML		M	
Lisp		M		XMLRPC	L		
MySQL	L			Zope/CMF			H
.Net			H				