

# Edmund William White

## Summary

Dedicated results-driven SAGE Level IV senior systems engineer and information technologist with a record of innovative and creative solutions across a diverse array of systems environments and industries.

## Education

University of Illinois at Urbana-Champaign - BS Computer Science/Economics

## Experience

### Systems Engineer

Oct. 2008-Nov. 2009

#### Cognitive Capital, LLC – Proprietary Trading Firm • Chicago, IL

- ◆ Sole systems engineer responsible for the Cognitive Capital proprietary trading system, complex networking environment and back-office infrastructure.
- ◆ Supported the software development team, financial engineering group and trade desk staff, as well as the proprietary and third-party applications used by those groups.
- ◆ Executed the firm's strategic technological initiatives by leading the enterprise-wide migration from 32-bit to 64-bit Linux, standardizing on a newer release of the CentOS operating system and working closely with internal developers and third-parties to streamline the move to a new order management system (OMS) vendor.
- ◆ Managed a tactical data center move from New Jersey to Manhattan. This included colocation site research, price negotiation and planning, resilient low-latency communications design and provisioning, hardware acquisition, physical relocation, and systems redeployment without impairing daily trading operations.
- ◆ Optimized the existing OpenNMS SNMP monitoring and CFEngine change-management tools for day-to-day systems administration.
- ◆ Respected the trading day schedule and responded to automated system alerts during off-hours to ensure system uptime during trading hours.
- ◆ Research and development of technologies to benefit the firm's bottom-line, including real-time Linux variants, centralized job/batch scheduling utilities and creative online storage options for large volumes of transactional data (Sun Solaris ZFS-based filers).
- ◆ Leveraged personal vendor relationships to acquire server and networking hardware at the lowest prices.
- ◆ Vendor liaison for exchanges and intranets, multiple communications vendors, market data providers, VOIP phone systems and outside consultants.
- ◆ Assisted in the development of a comprehensive business continuity plan to counter exchange, communications and data center outages to achieve the firm's uptime goals.

### Senior Systems Engineer Sales Engineer Engineering Manager

Jul. 2002-Jul. 2008

#### Produce Pro, Inc. – ERP Software Solutions for the Wholesale Produce Industry • Woodridge, IL

- ◆ Systems engineer responsible for the deployment, health, uptime, and performance of a geographically distributed set of 250 standalone Linux application, e-commerce and peripheral servers. 100 customers.
- ◆ Guided the technical direction of the Produce Pro software development and production platforms, internal business systems and the portfolio of engineering services offered to the client base; encompassing hardware infrastructure design, peripheral research and development, customization/tuning of Linux distributions and evaluation of new technology solutions.
- ◆ Accelerated the migration of application servers away from commercial Unix (HP-UX, AIX and SCO) by making Linux a viable platform for Produce Pro software. Standardizing on Hewlett Packard ProLiant hardware running RedHat Linux (and later, CentOS) reduced hardware and total package costs, driving a four-fold increase in the number of installed systems over a 6-year period.
- ◆ Introduced graphical centralized system monitoring, proactive alerts, performance statistics, and trends analysis to the support package using ORCA with SSH, RRDtool and HP Insight Manager.
- ◆ Streamlined the system install process using kickstart scripts for unattended server deployments and burn-in.
- ◆ Assumed the primary sales engineer and vendor liaison role in 2003, leveraging the engineering trust-relationships established with the client base to develop a self-sustaining channel for hardware sales to Produce Pro customers. This resulted in \$1.5 million+ in annual hardware sales since and transformed Produce Pro into a one-stop software and hardware solutions provider. This move afforded a degree of stability and standardization unrivaled in the produce ERP software vertical market.
- ◆ Refined the Produce Pro transactional data mirroring/failover and disaster recovery process, increasing the coverage from 15% to 60% of the client base. Further growth of this product was spurred by investing in collocated VMware ESX clusters; yielding a profitable subscription offsite data replication service for customers.
- ◆ Served as the de facto IT solutions support for 75% of the Produce Pro customer base, traveling across North America (nearly 40%) to maintain the system conditions needed to ensure their business continuity.
- ◆ Managed the full lifecycle of numerous client systems projects, developing an extensive portfolio of installations and a knowledgebase to reference for future deployments.

## Edmund William White

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**Systems Administrator  
Macintosh Consultant**  
May 2000-Aug. 2002

University of Illinois – School of Music • Computer Music Project/Experimental Music Studios (UIUC) • Urbana, IL

- ◆ Maintained workstations in a 60-user Linux, SGI IRIX, Macintosh OS X, and Windows 2000 environment.
- ◆ Managed network interoperability via NFS, NIS, Samba, SSH, FTP and Apache web services.
- ◆ Developed tape backup and restore procedures for the mixed environment.
- ◆ Supported custom sound synthesis and analysis software packages on Linux.
- ◆ Ported C-based scientific data sonification applications from IRIX to Linux.
- ◆ Provided hardware and software solutions for eight Macintosh-based recording studios.
- ◆ Managed Digidesign Protools digital audio workstation hardware and software for 40 studio users.

**Business Intelligence/  
Data Warehousing  
Analyst**  
May 2000-Mar. 2002

Kraft Foods, Inc. • Kraft Foods Operations/Decision Support • Northfield, IL

- ◆ Migrated data from MVS and AS400 transactional systems to Oracle (HP-UX).
- ◆ Coded custom extensions to ETL tools (ETI) to enforce functional and business data requirements during conversion from legacy systems.
- ◆ Developed data models and refined existing database schemas with ERwin.
- ◆ Performed light HP-UX systems administration and supported Oracle DBA functions in development and sandbox test environments.
- ◆ Managed Business Objects universes and optimized SQL procedures for ad-hoc queries.

## Skills Summary

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**Operating systems and  
platforms.**

### Linux and Unix

- ◆ Comprehensive knowledge of RedHat and derivative products (CentOS, Fedora), SUSE Debian/Ubuntu and Slackware. (Brainbench Linux Administration 4.07/5.0 – 2008; RHCE 2004)
- ◆ Performance optimization through custom kernel compilation, patching, profiling and tuning storage I/O subsystems and filesystems (XFS and ext3). Experience with low-latency and realtime patches.
- ◆ Automation, leveraging CFEngine, kickstart, custom RPM packaging, and scripting (Python, Perl and shell) in administrative languages.
- ◆ Security and system-hardening, rootkit detection/extraction and kernel-based firewalling (iptables).
- ◆ Sun Solaris and OpenSolaris work for scalable ZFS storage solutions.
- ◆ System troubleshooting and application debugging using built-in tools (strace, lsof, Dtrace etc.).
- ◆ System monitoring toolkit includes OpenNMS, ORCA, MRTG, RRDTool, Nagios, and Monit.
- ◆ Open Source Job Scheduler.
- ◆ Management of large-scale application and front-end systems leveraging SSH, telnet, and Apache.
- ◆ Mail server solutions utilizing Sendmail, Postfix, Squirrelmail, Spamassassin, ClamAV, and greylisting.
- ◆ Customization of integrated and minimal Linux distributions like Busybox, Knoppix and Darn Small Linux used for unattended printing, point-of-sale, and thin client solutions (often deployed via PXE and tftp images).
- ◆ HP-UX, AIX, SCO, Solaris, and Irix. Proficient from the perspective of application and software environment porting to Linux. Familiar with nuances of each operating system and their command analogs in Linux.

### Virtualization

- ◆ Significant VMware ESX Infrastructure (3.5 and 4.0) and VMware server experience spanning single virtual machine instances to clusters containing 40+ virtual instances.
- ◆ Shared storage and network consolidation technologies to support virtual machine infrastructure. SAN design (iSCSI and NFS), 10-gigabit Ethernet and Infiniband.
- ◆ Non-server virtualization solutions used for development, and compatibility testing. VMware Workstation and VMware Fusion for the Macintosh.

### Microsoft Windows

- ◆ Windows system administration and installation. Active directory management and expansion, Exchange/Activesync, SQL Server, Sharepoint, IIS, Terminal Services, LDAP and AD Linux integration. Possess the requisite skill set to support internal systems and administer client systems.
- ◆ PC installation, troubleshooting and repair. Imaging and scripting in a desktop/laptop environment.

### Macintosh

- ◆ Macintosh hardware troubleshooting and repair, application development, X11 and Unix. Deep involvement with supporting media-creation and Macintosh professional users in the publishing and A/V industries.

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## Enterprise Hardware and Software

### Servers and Storage

- ◆ Authorized Hewlett Packard ProLiant technician and solutions provider.
- ◆ HP ProLiant servers spanning legacy Compaq hardware to the current range of HP systems. Install portfolio includes the entire DL, ML and Blade product lines.
- ◆ Expert knowledge of HP technologies including Lights-Out management, Insight Manager, ProLiant Support Pack and Smart Array RAID controllers.
- ◆ Dell PowerEdge blade and rackmount servers. DRAC out-of-band management and OpenManage monitoring.
- ◆ Sun Fire solutions, including x4500/x4540 storage servers and Unified Storage appliances.
- ◆ Additional storage experience includes direct-attached SCSI, SAS and SATA disk arrays, iSCSI and NFS shared storage, and Ultrium/LTO, DLT tape libraries.

### Networking

- ◆ Cisco ASA/Pix firewalls, 28xx IOS routers. Catalyst 3560 and 3750 switches/stacks. Aironet access points for wireless/RF warehouse situations.
- ◆ HP Procurve networking.
- ◆ VOIP and PoE networking for phone, wireless and video (security) solutions.
- ◆ Metro Ethernet WAN solutions, MPLS, client and site-to-site IPSec and SSL VPN, Frame Relay, BGP and HSRP for resiliency.
- ◆ Common network protocols, including DHCP, DNS, SMTP, TFTP, etc.

### Software

- ◆ Database solutions. Oracle, MySQL, PostgreSQL. Maintain multiple LAMP installs. HTML, PHP, and Apache/Tomcat administration and deployment. Wiki management.
- ◆ Postscript, PCL and LaTeX document formatting for high-volume production printing systems.
- ◆ Can modify and debug C, C++ applications. General Unix compilation skills (cc, gcc, make, Makefiles).
- ◆ Source code repository and change-management tools; CVS, RCS, Subversion, Borland Starteam.
- ◆ Systems documentation and technical writing. Visio network and systems diagramming.

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