**Patrick F. Caffrey**

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**SUMMARY**

Analytical and creative **Senior Software Engineer** with extensive experience designing and implementing applications supporting internal and external organizational processes. Skilled in system administration and all facets of software development life cycle from analysis and design through development, implementation, documentation, user training, and customer support. Excellent problem solving and project management skills. Known for communicating complex technical information to non-technical audiences. Consistently enhances existing systems with new features and performance improvements.

Core strengths in:

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| * Software Product & Project Development
 | * Leading IT Project Teams
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| * System Administration
 | * Change Control & Management
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| * Parallel & Scalable Computing
 | * System Security
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| * Object-oriented & Agile Design & Programming
 | * Customer Support
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| * Product Conception, Design & Specification
 | * Troubleshooting & Problem Solving
 |
| * Data Model & Database Programming
 | * ISO 9000 Audit Training
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**TECHNICAL SKILLS**

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| **Languages** | C, C++, Fortran, COBOL, Java, Perl, Python, PL / I/X, assembler programming languages, .Net PowerShell scripting, Windows/DOS batch files, UNIX shell scripting, awk, Korn shell, REXX |
| **OS Platforms** | AIX / UNIX, Linux, IBM z/OS software computing platforms, Amazon Cloud Services, Windows .Net Framework |
| **Development Tools** | Source code configuration management, change control, client/server programming, multi-threaded programming, software test and debugging. |
| **Hardware Platforms** | IBM Pseries, Xseries, Iseries, z/OS, RS/6000, AS/400, Amazon Cloud AWS |
| **Desktop** | Windows 8, 7, 2013, Vista, XP, 98/95 PC environments, Microsoft Access, Excel, PowerPoint, Word, Lotus Smartsuite, OpenOffice, including application & data conversion between versions/platforms. |
| **Networks** | UNIX TCP/IP networking, Microsoft LAN, desktop firewall and anti-virus configuration |
| **Applications Databases** | IBM DB2, SQL, MySQL, CICS, Content Manager OnDemand |
| **Graphical UI** | XML, HTML, web page development, Xwindows / Motif |
| **Other** | Familiar with US intellectual property and patent process as it pertains to software |

**PROFESSIONAL EXPERIENCE**

**NY STATE OFFICE OF INFORMATION TECHNOLOGY SERVICES**

**Information Technology Specialist Systems Programming January 2014 – Present**

Maintained and implemented enhancements and functional improvements for IBM mainframe z/OS ITS agency online transaction processing (OLTP) of IBM CICS applications, transactions, and supporting software, application, and business environments. Also supported IBM Content Manager OnDemand (CMOD) with NY State agencies, such as Department of Labor and Higher Education Services (HESC).

* Consolidated Department of Labor CICS regions, reducing the amount of resources, removing obsolete libraries and files.
* Migrated Higher Education Services OnDemand CMOD development and production data from a Windows platform to a mainframe DB2 platform, involving over 3 million files consuming 900GB of space, reducing the amount of server overhead and costs.
* Coordinated CICS region upgrades and enhancements, including test and support roles for system upgrades, in conjunction with NY state IT services consolidation.
* Developed tools and procedures to analyze and document agency workload operator instructions for job status and failure.
* Responsible for department continuity of operations and disaster recovery process and procedures.

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**PILOT CONSULTING October 2013 – Present**

**Software Consultant**

Developed and implemented enhancements and functional improvements for independent customer software, application, and business environments. Expertise in multiple platform environments with a strong general application and software programming experience, including design and documentation, including conversion of desktop & application files from platform to platform (such as Microsoft Office, Lotus, OpenOffice, etc.), using Perl scripts, MySQL tables, and Amazon Cloud services.

**IBM Corporation**, Kingston / Poughkeepsie, NY **1992 – September 2013**

**High Performance Computing Software Developer & System Administrator** 1994 – 2013

Designed and implemented enhancements and functional improvements for IBM’s high performance parallel computing software products, running on IBM’s scalable supercomputers. Key responsibilities were system administration, security, scalability, client / server connectivity, software packaging / installation, and workload management.

* Responsible for system installation and administration on IBM Pseries and Xseries systems, including new and existing system migration, utilizing AIX and Linux administration commands (**SMIT, installp, rpm**), for development, test, and customer support systems.
* Developed new functional enhancements for achieving great scalability of up to 1M parallel tasks, using new and updated application programming interface enhancements, exceeding customer Department of Energy and DARPA customer contract goals.
* Reduced number of problems 45% in role as customer advocate for key supercomputer and high performance customers (DOE labs, GM, Airbus, North American and European weather sites), by assisting with installation and support, increasing system availability and reliability.
* Improved software performance and reliability, with memory usage analysis, parallel threaded C and C++ programming, code consolidation and reuse on a continuous basis.
* Improved performance and reliability of key IBM customer deployments on IBM Pseries and Xseries hardware, working with IBM’s AIX and Linux support teams and owning HPC software FixCentral PTF support distribution.
* Reduced labor costs and strengthened capabilities of 3rd party vendors and partners by developing and training global team.
* Played significant role in achieving and maintaining ISO 9000 quality certification by leading initiative and co-authoring several software development policies and practices.
* Increased IBM’s patent portfolio by submitting and being awarded several software invention patents.

**Site Telecommuting Center System Administrator**, Kingston, NY1996 – 2008

Administered and coordinated a satellite telecommuting center for up to 40 local employees to work remotely for work / life balance. Performed system administration, software installation and management of 30+ IBM Pseries workstations and connectivity.

* Increased employee availability and productivity by coordinating data network and phone, building infrastructure.
* Increased usage of center 40% by assisting in expansion of original work space, improving usability, functionality and aesthetic appearance.

**Performance Tool Development**, Kingston, NY 1992 – 1994

Developed real-time system performance tools for IBM’s initial mainframe UNIX offering. Created graphical performance monitoring and reporting tools, for identifying problems and improving overall system performance, resource availability. Utilized Xwindows, Motif, UNIX TCP/IP networking, client / server programming, and miscellaneous performance tools for memory, process, and network statistics.

**EDUCATION**

**BA**, Computer & Information Science, State University of New York at Potsdam, Potsdam, NY

**LEADERSHIP / COMMUNITY SERVICE**

Computer Science Board of Advisors, State University of New York Potsdam, Internship / Recruiting committee chair person, (1999 – Present), assisting CIS Department & students with industry trends.

* Coordinated campaign to fundraise, purchase, and construct laptop classroom in 2001. Received outstanding volunteer award from college for efforts.

Extensive volunteer experiences with youth sports organizations and community groups:

* President Saugerties Babe Ruth League, 2013 – Present, board member 2008 – present.
* Past President and current Board Member, Saugerties Youth Hockey League, 2001 – Present.
* First Lego League Engineering & Science Instructor, Riccardi Elementary School, Saugerties, NY.