SENIOR SYSTEMS CONSULTANT

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July 5, 2018

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| 10/01Present | UNISYS CORPORATION, RESTON, VIRGINIA. (Unisys ClearPath Libra) Architect 1. Chief ClearPath Architect, ClearPath Application Modernization Center of Excellence – communicate Unisys ClearPath capabilities to customers and internal personnel via multiple presentations at UNITE, Future Matters, customer and Unisys sites (e.g. quarterly world-wide sales meeting). Designing, implementing and demonstrating prototypes to show in situ modernization capabilities of ClearPath Libra (MCP) and soon Dorado (OS 2200). Providing training, mentoring, assistance, and complete modernization solutions. Provided substitute DBA services for 11 databases during a customer’s change of DBA. Wrote a UCOB scanner to locate moves between numeric items with different picture clauses to assist a customer who had problems because such moves, while documented to have undefined results when used for non-numeric data, in fact maintained such data without change in prior versions of ACOB but no longer did so in newer versions of ACOB and UCOB. Provided ClearPath MCP expertise in support of the Knowledge Refinery Platform from Hatha Systems; assisted fixing issues and enhanced the product to meet customer requirements. These efforts were also part of the development of the partnership with Hatha Systems where Unisys plays the role of System Integrator to take the product to the next level as a Knowledge Discovery tool for various platforms including ClearPath MCP and OS 2200. Assisted training Unisys associates. Manage KR releases and licenses used by Unisys. Provide assistance designing ePortal orchestration and JavaScript techniques. Created COBOL copy libraries to simplify use of Crypto Co-processor specialty engine. Investigated codefile modification requirements and implemented DMSQL configuration WFL to allow multiple instances so that resources can be disabled independently, updated for MCPSQL. Wrote COMS processing item to allow ePortal COBOL-01 and SDF to share programs. Assisted in plan review and tools analysis, assisted in design of and created MCP part of data synchronization prototype. Member Unisys Federal 4Q2011 Team of the Quarter. Owner ClearPath Forward Community. Wrote tool to capture EOT/EOJ information missing from sumlog at H/L, tool to collect COMS statistics during stress testing, tool to capture DMSII STATUS MIX, INTRAN, & HISTORY for all databases on demand or automatically upon detection of excessive COMS queueing. Converted user management software (users, passwords, profiles, resources) from IBM to Micro Focus Enterprise Server on Linux. Wrote COBOL back-end programs providing Web services for iOs and Android mobile applications, including document upload/encryption/decryption/view via single sign-on, data download in preparation for offline use, and geolocation collection and selection of nearby vendors. Wrote WFL to create and compile a clone of a database for the purpose of bulk data transfer in preparation for continuous data transfer from the live database by Unisys Data Exchange for ClearPath MCP.Instantiated ClearPath MCP Developer Studio on Amazon Web Services.Through 2010 lead team of 21 for Fleet and Transportation Branch of Asset and Transportation Division (ATM) of United States Federal Government General Services Administration (GSA) Federal Acquisition Service (FAS) Office of the CIO on the GSA-FAME (FAS Application Maintenance and Enhancement) contract. Fleet Management System (FMS), a $3,723,000 / year project, supported GSA Fleet, a $2,600,000,000 / year business, using FMS to manage a fleet of over 220,000 vehicles worldwide, over one third of the civilian vehicles owned by the Federal government. Provided architecture guidance for Transportation Management Support System (TMSS), and Transportation Audit Support System (TASS). TASS returns $7,000,000 / year to the U.S. Treasury. TMSS processes bookings of $15,600,000 / year. Chief ClearPath MCP architect for ATM. Lead DBA for ATM with 11 DBAs managing 18 databases containing 204 GB. Guided conversion from Voyager to Wright Express vehicle credit card vendor. Guided architecture and implementation of short term vehicle rental management system. Guided architecture and implementation of Federal Motor Vehicle Registration System, which automates collection and management of registration information for all (~600,000) non-combat Federal motor vehicles. Guided architecture and implementation of billing module providing significantly enhanced functionality. Installed MySQL for data analysis. Designed and implemented vehicle remarketing process initiation software saving 3.5 man-years per year. Guided design, implementation and ongoing enhancement of Automated Remarketing Module (ARM), Visual C++ program controlling bulk of vehicle remarketing process. Designed and implemented mainframe Java program which communicates with National Law Enforcement Telecommunications System (NLETS). Project manager and architect PowerBuilder to WebPCM / COBOL / DMSII conversion of Acquisitions Management Program used to aid purchase of almost 40,000 vehicles per year. Presented at UNITE twice. |
| 01/90 Present | EGAN SYSTEMS, GROSSE POINTE SHORES, MICHIGAN. ClearPath MCP and A Series consulting and training. Design and maintain MCP PerfMon (a performance monitoring tool). As a consultant to:* Sterling Solutions & Systems, Inc., Plymouth, Michigan. Technical director. Project manager installing mobile computing for public safety. Managed pilot of 5 manufacturers’ solutions in Warren, MI. Helped implement and train for solution from Cerulian, Xplore, Sierra Wireless in Flint, MI. Installed and programmed Partner telephone systems.
* Society for Worldwide Interbank Financial Telecommunication (S.W.I.F.T.) (Unisys ClearPath MCP): Performance design consulting, planning, tracking (using Visual Basic for Applications), benchmarking, analysis and reporting.
* Metalogic S.à r.l. (Unisys ClearPath MCP and A Series): Provided development, documentation, instruction, consulting and support for a range of Unisys A Series tools: Supervisor (Automated Operations), Flex (Information Lifecycle Management), PrintSmith (Reports Management), TRIM (Tape Management), JamPack (Disk Space Management), DBControl (Memory Management), CachePack (Software Disk Cache). Presented at UNITE.
* Unisys Corporation (Unisys A Series): Helped convert GSA PBS’s Infonet system to A Series. This conversion succeeded after five prior attempts had failed.
* Lynx Networking, Inc. (Unisys A Series): Instructor for: A Series Architecture and Basic System Support, A Series BNAv2 Network Implementation, Data Communications and Networking: Making the Connection, A Series Operations
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| 07/80 12/89 | HOLDER, EGAN & COMPANY, INC., MIDLAND, MICHIGAN. Provided consulting services including: system, application and data communications (NDL and NDLII) software design and implementation for mainframes and microcomputers; performance analysis; throughput and response time enhancements; use of and modifications to operating systems, GEMCOS, COMS, and custom MCSs; restart, recovery, and reliability methodologies for critical on-line applications; instructor for NDLII and Advanced NSP Data Communications. Design and maintain MCP PerfMon (a performance monitoring tool). As a consultant to:* Society for Worldwide Interbank Financial Telecommunication (S.W.I.F.T.) (multiple Unisys A Series, CP2000, and CP9500 connected with BNAv1 and BNAv2): Helped increase performance of various applications up to 500 percent. Designed and implemented ALGOL compiler patches to allow collection of statistics in an asynchronous environment with much less overhead, and to pinpoint uses of expensive constructs; MCP patches to help find performance problem areas. Gave performance seminars.
* Ford Motor Company (Burroughs B7900): Converted various terminal and computer-to-computer data communications protocols from NDL to NDLII.
* Syntech (providers of the second Michigan Daily Lottery system) (multiple Z80 microcomputer configuration): Designed and implemented on-line redundant tape audit system including device drivers for tape controller; off-line sort/reformat system which processes 750,000 transactions per hour (a single microcomputer (Z80) version of this system processes 480,000 transactions per hour). Developed hardware modifications for the tape controller.
* Datatrol (providers of the first Michigan Daily Lottery system) (Burroughs B6700): Improved throughput from 330,000 to 420,000 transactions per hour, including changes to the operating system. Implemented new terminal protocol, increasing data communications throughput 150 percent.
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| 06/77 06/80 | DATATROL, INC., SOUTHFIELD, MICHIGAN. (Providers of the first Michigan Daily Lottery system) (Burroughs B6700): Helped design and implement database software which reduced accounting errors from 20-60 per hardware failure to one known in two years; master/slave software and hardware which recovers from a single hardware or software failure within two minutes, without operator intervention. Designed and implemented terminal and computer-to-computer data communications software. Improved throughput from 140,000 to 300,000 transactions per hour. Wrote operations procedure documentation.As a consultant to:* Digital Resources Corporation (Perkin-Elmer 7/32): Helped implement a store and forward message switching system with master/slave capability, including data communications device drivers and modifications to the operating system. Helped debug hardware problems with disk pack and data communications subsystems.
* Albion College (Z80 microcomputer system): Helped design and finished implementation of a data communications concentrator.
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| 09/75 05/77 | ACADEMIC COMPUTER SERVICE, ALBION COLLEGE, ALBION, MICHIGAN. (Burroughs B5700): While a student, designed and implemented several utility programs and changes to the MCP; a stand-alone MCP to handle a non-standard tape. |
| 01/71 12/74 | UNITED STATES AIR FORCE. Maintained and operated digital and analog flight simulators. |
| 05/67 09/68 | WEAK, A STUDENT RADIO STATION, WONDERS HALL, MICHIGAN STATE UNIVERSITY: Collected record library information (number, artist, title) onto several thousand punched cards, used unit record devices to sort and print for fast access to records by artist or title. |

EDUCATION

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| 09/75 05/77 | ALBION COLLEGE, ALBION, MICHIGAN. Bachelor of Arts in Computational Mathematics. Hours: Computer/Mathematics 24, Accounting 8, Physics 12. Directed studies: Mathematical Theory of Computing, Computer Systems Security, Compilers, Computer Operating Systems and Architecture. |
| 04/71 08/71 | U.S.A.F. TECHNICAL TRAINING SCHOOL. Completed 8 month Flight Simulator Course in 4 months with 98% average, at top of class. |
| 09/67 06/70 | LAWRENCE INSTITUTE OF TECHNOLOGY, SOUTHFIELD, MICHIGAN. Hours: Math 30, Chemistry 30, Physics 10, Economics 9. |

Domain Expertise & Solutions

General Services Administration (GSA) / Federal Acquisition Services (FAS) and Public Building Services (PBS), US Patent and Trademark Office (USPTO), Customs and Boarder Protection (DHS/CBP), Law Enforcement, Lottery, Automated Operations, Information Lifecycle Management, Report Management, MCP and ALGOL compiler internals and patches, Instructor, Lottery, Data Communications, Performance (throughput and response time), Reliability, Restart, Recovery, On-line Real-time Applications, Custom MCS, Custom BIOS

Project and Program Management

Branch manager, project manager, team leader, architect

Communication and Networking

NDL, NDLII, Transaction Server for ClearPath MCP (COMS) including processing items, WebTS (Atlas), WebPCM, MGSWeb, TCP/IP, BNAv1, BNAv2, GEMCOS

Databases

Enterprise Database Server (DMSII), AppDataAccess, DataAccess, DMSQL, MCPSQL, MySQL, MS Access

Hardware

Burroughs B5700, B6700, B7900, CP2000, CP9500, A3 through A15; Unisys ClearPath MCP NX4800, NX6830, Libra 185, 690, 890, 4190, 4290, 6290, Developer Studio Gold, Silver, Personal, and Express, LX170, ePortal, JProcessor; Crypto Co-Processor, LX180 Laptop; Zilog Z80; Intel 8080, 8086, 80286, Pentium, 2, 3, 4; Motorola 68000, 68020, 68040; Apple Macintosh; General Precision (Singer-Link) GP-4, GP-4B; Qantel; Perkin-Elmer 7/32

Software / System Architecture

Metalogic Supervisor, JamPack, PrintSmith, Flex, CachePack, WaitWatcher, DBControl, TRIM; QMRP, ePortal (Web, Web Services, Mobile Web, Native, and Hybrid), Micro Focus Enterprise Server

Programming Languages

ALGOL, Java, ESPOL, TSPOL, NEWP, DCALGOL, DMALGOL, BDMSALGOL, NDL, NDLII, Pascal, BDMSCOBOL, DASDL, WFL, JCL, FORTRAN, BASIC, CPGL, MPLII, C, C#.net, asp.net, PHP, HTML, JavaScript, CSS, assembler, Modula-2, Visual Basic for Applications, QBasic, HyperTalk, SQL, GP4B machine, Z80 Assembly

Tools

Programmer’s Workbench, InfoConnect, QTermT27, CTC Bridge, Web Enabler, Visual Studio 2005, 2008, 2010, ePortal Developer, Eclipse and MCP plugin, Hatha Knowledge Refinery Platform, Relativity, Sure, subVersion, Tortoise SVN, subClipse, MicroFocus Enterprise Analyzer, MicroFocus Enterprise Developer, XML Parser, regular expressions, Kerberos, SecureAuth, Single Sign-on, Horizon VDI, Data Exchange, Trac, SOA Software Service Manager, PerfMon for MCP, SMFII

Operating Systems

MCP, Windows 3.1, 95, 98, NT, 2000, XP, 7, 10, MacOS, CP/M (1, 2, and 3), MP/M, CP/M-86, Concurrent-DOS, MS-DOS, Quantel Best, Perkin-Elmer, Micro Focus Enterprise Server

Office Productivity Tools

MS Office, MS Project, HyberCard

Technical Documentation

Accomplished technical writer

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