

## **Bryan Hipp**

[www.midrangeresources.com](http://www.midrangeresources.com)

Seasoned and accomplished programmer/analyst with nearly 25 years experience as a self-employed consultant specializing in IBM i, iSeries, and AS/400 systems.

- Strong analytical and troubleshooting skills with the ability to “think outside of the box”
- Able to work in a fast paced and dynamic environment
- Proven skills in research, analysis, project planning, program design and implementation
- Solid understanding of basic business and accounting principles
- Ability to quickly adapt to new development environments
- Ability to work well within a team, or independently,
- Ability to interact with end users to gather project requirements, perform training, etc.
- Proven to work productively with little or no supervision, both on-site and off-site
- Experienced in designing, writing, and modifying interactive, batch, and web-based applications
- Experienced with SEU, SDA, PDM, SQL, and Query
- Experienced with networking and the internet, plus FTP, Telnet, LPR, etc.
- Good working knowledge of various versions of Microsoft Windows and Office products
- Good working knowledge of various versions of Linux

### Programming Languages:

- RPG - all versions from ILE to S/36 RPGII
- CL - both ILE and OPM
- CMD
- ILE C
- SQL - both embedded and CLI, plus Query/400
- DDS - PF, LF, ICFF, and DSPF including subfiles and menus
- Experienced in creating and using service programs and bound programs
- Experienced in using IBM APIs
- Experienced in CGI and sockets programming

References are available upon request.

During my nearly 25 years as an independent consultant, I have had the privilege to work for a number of different companies, representing a diverse range of industries. I have worked for companies representing manufacturing, retail, wholesale, distribution, insurance, health care, financial, transportation, utilities, oil & gas, and service industries.

By design, most of my jobs have involved short term projects that lasted anywhere from a few days to a few weeks. This has allowed me to gain exposure to a wide range of industries, and it has also allowed me to enjoy a large number of different projects that I would not have been able to, had I chosen to work solely on long term projects. Though most of my career has been spent working on jobs of short duration, I have also worked on a few jobs that lasted a year or more.

As a result of my programming abilities, and good work ethics, a large number of my jobs have been for customers that I have done projects for previously. The majority of the projects I have worked on have involved an IBM i, iSeries, or AS/400 system, although I have worked on some projects involving other computer platforms or intelligent programmable devices. Most of the projects I have worked on were simple, routine programming tasks like changing the layout of a report, or adding some functionality to an existing application. Some projects were more complex, like writing new web applications utilizing RPG code for CGI programs, or converting all of the customer's applications and data files from a System 36 to native iSeries applications with DDS defined database files. Other projects were somewhat exotic, like the creation of some faxing software that allowed a customer to fax reports directly from their AS/400 system. Or, the creation of a remote order capture system on an iSeries that accepts orders via a bank of modems receiving calls from remote locations utilizing intelligent bar-code scanners running order entry applications that I also wrote.

In addition to programming, I have also performed numerous operating system upgrades on IBM i, iSeries, and AS/400 systems. I have performed numerous migrations from an older iSeries or AS/400 system to a new IBM i system. I have installed IBM i, iSeries, and AS/400 systems that required loading the operating system and other IBM supplied software from scratch. I have performed a few LPAR configurations on iSeries systems using SST with a managing partition, and also on IBM i systems using an HMC. I have even done a fair amount of hardware installation, and system upgrades.

I am the author of the AS/400 code for the LaserVault report archiving software, as well as developing the portion of the PC code that was used to communicate with the AS/400 system via a twinax connection prior to the introduction of network adapters and TCP/IP communications. Once network adapters started to become more commonly used on the AS/400, I developed software allowing the AS/400 to communicate with the LaserVault PC server via TCP/IP. The LaserVault report archiving software is a product that allows the archiving of spool files (reports) produced on an AS/400 system, to a PC running the LaserVault server application. The user then has the ability to view the reports from an AS/400 "green screen" session, or from a PC using the LaserVault client software or a web browser. While I have not been involved in the maintenance or further development of the LaserVault report archiving software since 2001, I do continue to collaborate with Electronic Storage Corporation, the owner of the LaserVault software, on other projects. In 2005, I created the IBM i code for Electronic Storage Corporation's LaserVault Backup software, and continue to maintain and enhance it to this day. LaserVault Backup provides the IBM i with the capability to backup everything but the OS itself, via TCP/IP to a PC running the LaserVault Backup server application. The LaserVault Backup PC is then able to optionally encrypt, compress, and de-dupe the backup data before storing it to RAID, SAN, NAS, cloud, etc.

I created software to perform data replication for a customer on their IBM i system that allowed them to back up their data multiple times per day without interfering with their users' access to the system. This was done by the customer backing up an exact copy of their data which was kept current through the use of the data replication software I had created. A few years later, when the customer purchased a second IBM i system, I modified the software to replicate their data from the production system to the secondary system. This provided them with a low cost disaster recovery solution. I actively marketed the replication software for a short time and even managed to sell a few copies of it. The replication software is still being sold and supported, but it is no longer being actively marketed.