William B. Davis, Jr.

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SOFTWARE & WEB DEVELOPER

Accomplished IT professional with extensive experience in all facets of software development lifecycle, user training, and support. Skilled at documentation and user interface design. Always interested in examining new technologies while keeping focus on long-term system planning and maintainability.

TECHNICAL SKILLS

- Computers: PCs (Windows, Mac, other), minicomputers (DEC/HP VAX and Alpha), and mainframe (IBM 3090).
- Web technologies: HTML, CSS, Java Server Pages, ASP, and ASP.NET.
- Languages: Java & JSP, JavaScript, Visual BASIC 6 & VBA, VMS BASIC, Microsoft BASIC, Microsoft C, Lattice C, Perl, SQL, COBOL, Pascal, Ruby / Rails, various Assembly languages.
- Scripting: VMS DCL, IBM JCL, Microsoft VBA and VBScript, Unix bash, Windows/DOS batch scripting.
- Operating Systems: Windows, Mac OS & OS X, DEC/HP OpenVMS, Unix, AIX, Linux, other.
- Integrated Development Environments (IDEs): Eclipse, IBM RAD 6, ISPF & Panvalet, Visual Studio, VB6, XCode, Macintosh Programmer's Workshop, command-line and Make.
- Databases: MySQL, SQLite, Microsoft SQL Server 2000.
- Tools: CVS, PVCS, SourceSafe, GForge, Make, various SQL tools, many more.
- Other: Web Services, WinSock, WebSphere, Geronimo, Mule ESB, MQ Series, CKEditor, jQuery.

PROFESSIONAL EXPERIENCE

2007-2017 : State of Iowa - Office of the Chief Information Officer (OCIO)   **Des Moines, IA**
Information Technology Specialist 3, I/3 Project Team (Integrated Information for Iowa)
- Maintained and enhanced the Online Payroll Warrants web site (Java/JSP, WebSphere, Web services, Eclipse) used by most state employees to view their paycheck stubs. Worked with Central Payroll, server team, networking team, and mainframe team to bring many feature upgrades to completion, also on moving site from WebSphere 5.1 on IBM AIX (Unix) to WebSphere Community Edition (a.k.a. Apache Geronimo) on Windows. Found and fixed several security holes in original code that would have allowed malicious parties to access employee pay data.
- Maintained and enhanced the back-end COBOL-based mainframe web service for the Online Payroll Warrants system database after the web service programmer retired. Worked with mainframe staff to switch from original IBM MQ Series messaging to use of a web service.
- Enhanced reliability and reduced errors or outages in Income Offset project programs (Java, Mule ESB, Ruby & Ruby on Rails), which reclaimed tens of millions of dollars of money owed to state agencies annually by keeping (offsetting) state tax refunds, lottery/casino winnings or payments to vendors who owed debts to the state. In FY 2008, $22.5M was reclaimed and by FY 2017, $48.8M was reclaimed. System was also used by cities, fire departments, community colleges, state universities, and utilities in Iowa.
- After not having used COBOL in over 20 years, refreshed knowledge quickly and assisted mainframe programming team with several COBOL programming projects on the mainframe-based State Human Resources Information System (HRIS). Assistance was mostly report changes, data extraction, and loading.
- Handled daily processing issues in the batch processing cycle of state financial/ERP system (CGI's AMS Advantage) AIX and Windows batch jobs. Use of UNIX bash shell, Windows command prompt, and other tools to diagnose and solve problems.

- Many other programming projects using Microsoft Visual Basic for Applications in Excel, Word, and Outlook.
- Co-administrator for maintaining IBM's Kenexa Brass Ring system, which ran the State of Iowa's job posting & applicant tracking system. Extensive experience on Kenexa Brass Ring Workbench administration tool.
- Assisted in setup and conversion from IBM Kenexa Brass Ring to the more government-oriented NEOGOV job posting and applicant tracking system in 2016 and 2017; served as co-administrator.
- Set up and administered the WebDAM digital asset management system (photos, video, documents) for clients such as the Iowa Dept. of Natural Resources and Iowa Dept. of Economic Development (Tourism).

Older positions - additional detail available upon request

Standard & Poor's, Inc.   **Urbandale, IA**
- Standard & Poor's, Inc. - New York, NY - Contract Programmer / Analyst
- Standard & Poor's Fund Services / Morningstar - Computer Systems Programmer/Analyst

MicroFrontier, Inc.   **Urbandale, IA**
- Director of Technical Support / Product Design and Testing / Webmaster

PrairieSoft, Inc. / Prairie Group, Inc. (spinoff of CE Software)   **West Des Moines, IA**
- Director of Technical Support / Product Design & Testing Manager / Webmaster

CE Software, Inc.   **West Des Moines, IA**
- Software Engineer / Director of Technical Support; language localizations, user's guide writer

Pioneer Hi-Bred International   **Johnston, IA**
- Software Engineer, Payroll Dept., Data System Division; Farm Information Management Services Division

EDUCATION & PROFESSIONAL DEVELOPMENT

- **Drake University**: Bachelors of Arts in Computer Science.
- **Spindustry:** Microsoft Official Training #MS-2071: Querying Microsoft SQL Server 2000 with Transact-SQL.
- **Spindustry:** Microsoft Official Training #MS-2072: Administering a MS SQL Server 2000 Database.
- **Spindustry:** Microsoft Official Training #MS-2310: Developing ASP.NET Web Apps using Visual Studio.NET.
- **Spindustry:** Microsoft Official Training: Microsoft Access Intro, Advanced, Macros & VBA Programming.
- **Des Moines Area Community College:** Visual Basic I – III.
- **Des Moines Area Community College:** Java I – III.
- **MindLeaders:** *(Computer Based Training)*: Introduction to Unix.
- **Element K:** *(Computer Based Training)*: Relational Database Design.

OTHER ACHIEVEMENTS

- Columnist and Reviewer, MacGuide Magazine, a nationally-published computer magazine.
- President, Treasurer, Secretary of Northwoods Townhomes Board of Directors, multiple terms.
- Founder, President, Newsletter editor of Club Mac Midwest computer user group.
- Vice President, Webmaster of Des Moines Science Fiction Society (DMSFS).
- Panel Presenter/Moderator, Webmaster of multiple DemiCon annual conventions (put on by DMSFS).
- Founder and President of IowaPen writing instrument collectors group.
- Jim Gebhardt Memorial Award & Scholarship, Hoover High School.