

Charles A. Hitselberger

Software Developer

SUMMARY/OBJECTIVE

- 15+ years' experience developing applications with Java / J2EE.
- Comfortable with many other languages and tools
- Seeking Java developer role in a team environment

WORK EXPERIENCE

chitselb.com, McLean, VA DEC 2008 to Present

Independent Consultant

Providing freelance software development and systems administration. Current language focus is Java and Ruby on Rails.

- Graceroute.com, Gaithersburg, MD, Software Engineer
- BlinkMind, Katy, TX, Software Engineer

TEKsystems, Reston, VA AUG 2013 to NOV 2013

Software Engineer

Contractor on site at Department of Labor (OSHA) rewriting several legacy Perl cgi-bin web applications into Java using Spring Framework and Hibernate. Used: Java 7; Java Server Faces 2; Hibernate; Glassfish 4; Oracle 11g database; Spring Tool Suite; Spring Roo; Maven 3; Git; Solaris 10; Wireshark; Perl;

- Reverse-engineered legacy mainframe network protocol
- Reverse-engineered legacy Perl applications
- Implemented mainframe network protocol in Java using sockets
- Established common front end for all web applications
- Implemented first of three mainframe network applications
- Implemented first of ten Oracle database applications
- Systems administration on Solaris 10 server.

Avanti Corporation, Alexandria, VA FEB 2012 to JUL 2013

Software Engineer

Developer in a small team environment using Agile methodology with Pivotal Tracker on a pure Oracle Java/JEE stack. Created web applications for the EPA's Office of Wastewater Management (NPDES) in support of the Clean Water Act. Weblogic Server 10; Oracle 11g database; TopLink ORM; Jdeveloper; Red Hat/CentOS 5 & 6, Oracle Linux.

- Codeveloper of Construction General Permit (CGP) and Pesticide General Permit (PGP) applications.
- Principle developer of CGP Public Search Engine.
- Introduced Selenium and test automation to our development process.
- Systems administration on Red Hat/CentOS/Oracle Linux rack and cloud servers.

Sure Secure Solutions, McLean, VA

AUG 2011 to JAN 2012

Software Engineer

- Worked onsite using NextAxiom's Hyperservice Studio and Service Runtime Engine platform to do back-end programming for Dept. of Energy's "Paperless Work Package project" on site at Savannah River Site near Aiken, South Carolina
- Integrated anything-to-PDF conversion into PWPP
- Ruby on Rails 3 development for front end interface to Next Axiom
- Virtual private network (VPN) setup (openvpn); cloud deployment (Amazon EC2 and Slicehost); Virtualization (qemu and Oracle VirtualBox)

Northrop Grumman, Fairfax, VA

AUG 2008 to NOV 2008

Software Engineer

- Member of Defense Travel System (DTS) configuration management group
- Performed application builds on development, testing, integration, customer acceptance and production platforms.
- Worked on Java application to automate configuration file generation
- Increased automation of build tasks, configuration generation, and post-build error checking.

BuildTopia, Rockville, MD

MAR 2008 to MAY 2008

Software Engineer

- Worked in a small team using agile/scrum methodology for designing new web application for social networking and accounting in the building and construction industry.
- Configured continuous integration environment on a Linux server using Hudson, Ant, Maven 2, and subversion.
- Designed and normalized Oracle 10g database.
- Developed J2EE software using Spring MVC framework, Hibernate, Struts, HTML, Javascript, and JDBC
- Installed and deployed application on Apache Tomcat.

Lockheed Martin, Alexandria, VA

NOV 2007 to FEB 2008

Software Engineer

- Member of applications team, providing new development and support for several existing dcma.mil financial applications. Worked in Oracle 10g and Oracle 9i on Windows XP and Solaris platforms, mostly on “Overhead” application. Applications were implemented in J2EE using Eclipse, Oracle BC4J, JSP, Spring MVC, Hibernate and Struts. Deployment was continuous integration using Tomcat, Ant, subversion and Hudson
- Wrote Ant scripts to automate build processes as part of continuous integration environment.
- Fixed Overhead bug in production and load test environments (un-reproducible in development and system test environments) caused by Oracle security patch changing a BC4J library interface.
- Used forensic techniques to recover application source code from previous DCMA vendor.
- Updated logging to use commons-logging instead of log4j

SightLine Systems, Inc., Fairfax, VA

APR 2007 to NOV 2007

Software Engineer

- Performed bugfixes, feature enhancements, and testing on SightLine Agent Administrator, a J2EE web application that allows users. Introduced JUnit test cases to this application.
- Replaced Java listener on SightLine Power Agent (SLPA) with C++ listener, to reduce memory footprint, improve speed, and eliminate JVM incompatibility issues. Used Xerces libraries for XML processing.
- Built, installed, and tested SLPA kits on all supported platforms.
- Configured OpenVMS development environment on Itanium64, Alpha, and VAX systems.
- Rewrote Intersystems Caché interface module to OpenVMS SLPA using Caché Object Script (MUMPS).

Broadsoft, Gaithersburg, MD

APR 2006 to NOV 2006

Software Engineer

- Software Engineer on Broadworks Execution Server team. Primary developer of Broadworks releases 14 Directory Number Hunting feature, from software architecture to system test.
- Propagated features and bugfixes into older releases of Broadworks.
- Analyzed and repaired bugs. Wrote function specifications and unit test plans.

- Authored high level design documents and other documentation as needed.

Verisign, Sterling, VA

SEP 2005 to DEC 2005

Software Engineer

- Added contact validation feature to dotTV website and database, using postal code lookup, E164 for phone, and mail server DNS lookup to qualify customer contact information.
- Performed quality assurance role on two releases of www.tv website and one release of www.greatdomains.com website. Ran ad hoc database queries for marketing group.

MCI, Ashburn, VA

JUN 2005 to AUG 2005

Software Engineer

- Developed system to provide BellSouth with database abstract, combining subscriber inter-county tariff data from five different sources into a flat file, including reliable secure transport and end-to-end data validation.

BroadVoice, Lowell, MA

APR 2004 to JUL 2005

Software Engineer

- Team-of-one software engineer. Designed/developed/tested the following projects:
- Caller name server puts caller names in subscriber phones as part of Caller ID. Uses SIP to communicate with application server and Southern New England Telephone Company. Designed MySQL database to manage long-term storage. Object-oriented design, database connection pools and Java native threading were used to improve performance under load.
- Created SOAP service using Apache Axis to provide custom caller name information to web portal and OSS platform
- TollFree server using Java/MySQL to validate incoming calls to subscriber toll-free numbers.
- Web portal based on Apache Jetspeed 1.5, JSP and Velocity. Provides subscribers access to call detail, billing, VoIP service feature control and account information. Analyzed another developer's Visual C# source code to incorporate structure of OSS backend database into Java.
- Used existing OSS platform web services to read and update subscriber data from the web portal
- Quality of Service system, measures jitter, packet loss and throughput bandwidth statistics using SIP and RTP, with MySQL as a backing store

Nextel, Inc., Mclean, VA

NOV 2004 to FEB 2005

Software Engineer

- Maintained and upgraded NERFSTAT (Northeast Radio Frequency Statistics) used by Nextel radio engineering group to monitor cell tower performance in near real-time. Environment was Red Hat Linux, Perl
- Added “neighbor” statistics using mySQL tables instead of flat files used by legacy application.
- Upgraded Red Hat on Philadelphia/Baltimore/Washington Server to support Perl/MySQL.
- Took a crash course in Perl and the design of the preexisting software sources in order to fix several previously existing bugs.
- Reorganized sources to use one code base instead of four.

Anvicom, Inc., Vienna, VA

JUN 1999 to JAN 2004

Software Engineer

- Maintain three key legacy financial applications onsite for the Federal Aviation Administration. Invoice Tracking System (ITS) and Budget Accounting System (BAS) are both implemented in Foxpro. Overflight Accounts Receivable Management Information System (OARMIS) is a billing system written in Borland Delphi. Provided high level help desk escalation support. Rebuilt OARMIS application from sources only, after collecting the necessary tools and libraries. Job included a six-month position at TechUSA.
- Obtained missing object libraries from multiple vendors
- Rebuilt and modified original OARMIS sources to work with latest object libraries and Delphi 4
- Updated documentation for OARMIS, BAS and ITS, including a Programmer's Guide to OARMIS
- Substantial modifications to BAS application written in Foxpro 2.6 to support FEMA and post-9/11 Emergency Funding requirements
- Developed Java application to convert financial reports into useable Excel spreadsheets
- Reengineered ABA Correspondence Tracking System (ABACTS)

Exario Networks, Parsippany, NJ

JUL 2000 to SEP 2000

Software Engineer

- Programming with Voice XML for a voice response system on Sun Solaris platform. Work performed off-site on a part-time salaried basis, reporting directly to CTO.
- Call Technologies, Inc., Reston, VA
Software Engineer, April 1998 to May 1999
- Developed and maintained software in C and proprietary “Callbuilder” scripting language on Digital Unix, SCO, and Linux

platforms. Performed system administration and development tasks.

- Produce releases of “Call Courier” voicemail platform.
- Improved development process as part of team.

Jones Management Services, LLC, Cleveland, TN MAR 1997 to MAR 1998

Software Engineer

- Provided programming and operations support at a medium-sized collection agency, using The Collection Wizard application running on OpenVMS. Researched new hardware.
- Developed new systems for startup medical billing company.
- Created electronic interfaces to replace manual data input for numerous agency clients.
- Designed and implemented prototype web service in Perl to interface with collection applications.

Netrail, Inc., Atlanta, GA

JAN 1997 to MAR 1997

Chief Technology Officer

- CTO for a transit-free Internet network service provider. Initiated development of computer system.
- Troubleshooting and maintenance of live TCP/IP network with large critical traffic user base.
- Designed and implemented high-level security system for physical access to network operations center using Perl and Free BSD.

Credit Bureau Enterprises, Waterloo, IA

DEC 1995 to JAN 1997

Software Engineer

- Lead programmer in collection agency, responsible for all aspects of mainframe operation. Quarterly performance tuning of database. Responsible for 24x7 operations support and uptime. Developed automated tools to monitor system and notify IT team by pager in event of system trouble. Initiated software development process for measurable, repeatable results on projects.
- Adapted The Collection Wizard into a medical billing system handling billing needs of multiple client hospitals with fully automated network interfaces.
- Designed and implemented cost-saving software to replace labor-intensive manual account merging process.

MCI Communications Corp, Colorado Springs, CO JUL 1994 to DEC 1995

Engineer III

- Member of DAP Traffic Statistics/MCI Traffic Statistics (DTS/MTS) development team. Platform used for counting call detail records in real-time, and generation and delivery of statistics for all 800/900 traffic on MCI's network. Full cycle development (assessment, analysis, design, coding, testing and production support) meeting quarterly release schedules. Provided operations support. Worked in DEC C on VAX/VMS. Ported DTS/MTS from DEC VAX to DEC Alpha AXP platform.
- Redesigned network delivery of call detail records for loss-free transmission

TECHNICAL SKILLS

OPERATING SYSTEMS

Linux (Red Hat, CentOS, Oracle Linux, SuSE, Ubuntu, Mint, Crunchbang, Puppy, et al)

Windows 95 / 98 / ME / NT / 2000 / XP / Vista / 7

Unix (Free BSD, Solaris, SCO, Digital Unix)

OpenVMS

SYSTEMS HARDWARE

IBM PC & clones

DEC Alpha AXP

DEC VAX & MicroVAX

Apple Macintosh

Palm Pilot

Networking

TCP/IP

Cisco Routers

Decnet

Samba

IPX/SPX & NetBEUI

Kermit

WEB TECHNOLOGIES

HTML

XML

WSDL

CSS

SOAP

Tomcat

Apache HTTPD / HTTPD2

Turbine

Torque

JAVA TOOLS & APIS

J2EE
J2SE
EJB3
Spring
Hibernate
JSF 2 (Primefaces)
Jetspeed 1.5 & 2
Maven 2 & 3
Ant
JUnit
JMF
SIP
RTP
Axis
Xerces
SAXP
Javamail
JSP
JavaScript
Velocity
JAXP
Mocha
Sun Studio ONE IDE
NetBeans IDE
Servlets
Applets
Spring MVC
Hibernate
Struts

PROGRAMMING LANGUAGES

Java
Ruby
Perl
C / C++ / C#
Borland Delphi
Visual BASIC, several dialects of BASIC
Pascal
Cognos Powerhouse
Callbuilder
Forth
80x86, Z-80, 8080, 6502 assembler

DATABASE/ORM

Oracle 10 & 11
Hibernate
TopLink
MySQL
Pointbase
Access 97 / 2000
Foxpro
Dbase
RMS (OpenVMS)

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