Russell Holder
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Professional Summary

Twenty years' experience in all aspects of software development, from assembly language firmware for single board computers to JAVA for the World Wide Web, including internal and external functional specification, design, programming, testing, configuration management, factory acceptance testing, troubleshooting, installation, user support, system administration, technical writing, training and presentations to customers. Excellent oral and written communication skills.

Professional Experience

2012 - present   Haustyle Custom Motorcycles
2011 - present   Lyon Real Estate – Sharon Holder - Realtor
2011 - present   Sharon Holder – personal website
2011 - present   Russell Holder – personal website
2011 - present   Irongate Motorcycle Apparel
2011 - present   Slabsides Motorcycle Service
2011 - present   Mid-Cal Cycle
2010 – June 2011   Thunder Roads Magazine NorCal (temporary assistance)
2010 – April 2011   Motorcycle Consignments Plus (out of business)
2010 - present   Sunset Design Company
2010 - present   Hog Wild Bar-B-Que
2009 - present   John A. Sutter Outpost 1841
2007 – September 2012   River City Harley Riders (resigned)

Sacramento, CA
WEB SITE ADMINISTRATOR

River City Harley Riders (formerly Sacramento Harley Owners Group) and John A. Sutter Outpost 1841 (a history preservation organization) are both local Non-Profit Organizations; both of these web sites are implemented with .php and use CSS, java, common include files, and a SQL database for member only areas and for administrative forms created for board members; both of these sights use analytics. Motorcycle Consignments Plus (now out of business), Hog Wild Bar-B-Que, Thunder Roads Magazine NorCal (temporary webmaster), Slabsides Motorcycle Service, Mid-Cal Cycle, Sunset Design Company, Irongate Motorcycle Apparel, Lyon Real Estate – Sharon Holder - Realtor, and Haustyle Custom Motorcycles are local business, and, Sharon Holder's website and my personal website, these websites are straight HTML with some java; additionally, many of these websites are implemented with .php.

2004 - 2009   ADT SECURITY SERVICES
Sacramento, CA
MATERIAL HANDLER

ADT Security Services provides residential and commercial security services from installation to monitoring and maintenance. Responsibilities included ordering, receiving, distributing, returning, costing product that came into and went out of the Sacramento branch warehouse which contained approximately one million dollars worth of standard and custom ordered product for installation and maintenance technicians.

2000 - 2003   FORESIGHT SYSTEMS, INC.
Austin, TX
SENIOR SOFTWARE ENGINEER

Foresight Systems, Inc. is the manufacturer of the SavanSys and Foresight tool suites, hardware and software development and analysis tools. Responsible for the maintenance and enhancement of SavanSys, a software application providing our consultants and customers the ability to build and analyze virtual prototypes of today's leading edge electronic products. In 1992, initial development began for Multi-Chip-Module (MCM) and Printed Circuit Board (PCB) virtual prototyping in a UNIX environment; the tool has since been ported to Windows NT and expanded

to model all aspects of substrate fabrication, module assembly, and chip preparation. The SavanSys tool produces a comprehensive set of analyses: Size, Routability, Placement, Partitioning, Critical Net, Electrical, Thermal, Cost, Yield, and Reliability. Information can be imported and exported in a variety of formats appropriate for other software applications, for example, Mentor Graphics' Board Station and Microsoft's Excel. Use of this tool, depending on unit cost, unit life, and per-unit savings, literally saves customers millions of dollars!

1999 - 2000   POLYCOM, INC.
Austin, TX
SENIOR SOFTWARE ENGINEER

Polycom, Inc. is a manufacturer of audio and televideo conferencing equipment. Polycom recently began developing a PC based product that operates via the USB on a Windows 98 or a Windows 2000 operating system. A few of my contributions follow. Produced the first draft InstallShield for

Windows Installer for the application. Coded a Filter Graph Manager, including a parser which accepts a file that defines how the filters will be connected. Produced the Ring-3 code that retrieves data from the USB driver and concatenates the data into data packets which can be sent to an audio or a video decoder. Interfaced Apple's Quicktime libraries to the application. Have also produced a variety of methods which interrogate the system and registry to determine the suitability for the application such as display, driver and USB chip set capabilities, and, which process device state change messages.

1994 - 1999   DATA RESEARCH ASSOCIATES (DRA), Monterey Branch
Monterey, CA
SENIOR SOFTWARE ENGINEER

DRA, a St. Louis based Corporation, is a leading provider of client/server library automation systems, networking services and other related services. DRA's newest product, Taos, is a three-tiered, object-oriented (C++ and Java), standards-based system, multi-component package, combining DRA Web2, Circulation, Cataloging, WISRD. DRA Web2 is a web-based client/server application enabling patrons to obtain information and status via the World Wide Web. My task is customizing the standard DRA Web2 product to interface with a non-standard system letting users access any Z39.50-compatible database from any World Wide Web browser (such as Netscape, Mosaic, Lynx or Internet Explorer). DRA Web2 functionality includes: portability to multiple server platforms (including Open VMS, UNIX and Windows NT), simultaneous searching of multiple resources, merging of such search results into a single display, saving of search results, and, ability to provide patron self-service functions via PIN access -- such as placing requests, reviewing materials checked-out and changing personal address information. This requires customized HTML supported by CGI programs which communicate with a Z39.50 compliant server. Internet development work also includes Application Programming Interface (API) for Netscape and Microsoft Servers using Microsoft Developer's Studio and Frontpage 98. Other responsibilities at DRA include enhancing and maintain a MARC Editor, DRAFind - a Z39.50-compliant and Microsoft Windows-based reference workstation, and, DRAKids - a Z39.50-compliant interface designed specially to alleviate problems children might have with other, more complicated, user interfaces.

1991 - 1993   AQUASTRADA INTERNATIONAL CORP
Monterey, CA
PROJECT ENGINEER

Responsible for craft and system diagnostics, and interfaces with various OEM components for an onboard computer system for an amphibious craft. The OEM components included GPS, fluxgate compass, radar, and touch screen video monitor. Hold three patents with three other engineers resulting from this project. Participated in sales presentations to the military, interested manufacturers and investors. This exciting craft has been featured in the Monterey Herald, Popular Mechanics and numerous TV and boat shows.

1989 - 1991   COMPAQ COMPUTER CORPORATION
Houston, Texas
SENIOR SOFTWARE ENGINEER
Advanced Architecture Department

Tested current and future products to verify the integrity and systems level compatibility of integrated circuits (IC), and, application specific integrated circuits (ASIC). Worked closely with hardware engineers to design and implement software and hardware to test ICs and ASICs. Some ICs, for example, a real time clock or an interrupt controller, were testable with a self driven test run on the system. Some ASICs, for example, a disk array controller, required the development of device specific emulators including onboard firmware and host resident user interface software. All software was written in C and maintained under version control.

Prior Experience (1976 - 1989)

Software Engineer for five years at a systems house which built in-circuit emulators, logic and signature analyzers. Software Engineer for eight years at Supervisory Control and Data Acquisition (SCADA) companies:
- energy management systems for electric utilities
- real-time data acquisition systems for explorational drilling

Languages, H/W, S/W, OS

- Web publishing (professional and avocational)
- HTML, CSS, Java, .asp, .php
- Front Page 98
- MS Developer Studio
- C++ programming (MSVC 2.1,...,MSDS 6.0)
- Select OMT for OOA & OOD
- C, FORTRAN, Pascal, PL/M
- Assembly Language
- Script: C & Bourne & bash shells, WRQ, MS92
- Version Control: MSVC, PVCS, CVS

- MIIS API
- Netscape Communications/Fasttrack servers & API
- Client/server: Z39.50,.70
- MS-DOS, Windows: 3x,WfW,W9x,NT,W2K, Cygwin,...
- RMX, UNIX, XENIX, CP/M, MP/M, RSX-11M, VAX/VMS
- Intel 80XX,..., Motorola 68XX, Zilog Z-80, RCA 1802
- Sun (SunOS 5.7)
- DEC PDP-11, VAX-11/785
- HP-3000 (HP-UX)
- IBM 360, MODELS 20 & 40
- Univac 1108

Education
1976 B.A., Math & Computer Science (with honors) University of California at Santa Cruz