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Technical Expertise and Self-Directed Study to Present

- I have a web portfolio which uses several technologies including: CodeIgniter MVC Framework, PHP, MySQL, HTML, JavaScript, JQuery, JQuery UI, JQuery Mobile, CSS, CSS3, SVG, AJAX, XML, JSON, Regex, DOM, Notepad++, Cloud9 IDE, GIT, Heroku Server, Laravel MVC, GitHub API, Facebook API, Active Campaign API, Bootstrap, WordPress, Ruby On Rails, Google Developer Tools, Homestead Dev, Vagrant VMs, Adobe InDesign, Microsoft Word, GIMP (like Photoshop), and other technologies.

I have recently learned to program using Angular2, @ngrx Redux, NodeJS, and other related technologies, and there is an app under the Software Development tab of my web portfolio. This particular app does not use an REST API, in addition to the central state management, as I could not deploy json-server to heroku with the rest of the app. I do have a development app that can be run on the localhost, and that uses json-server, and this app has a REST API to go with the central store. It preloads the central state/store from the API on start-up. Git repositories for both of these apps are in my web portfolio under the Software Development tab. My web portfolio address is:

<http://www.rlsworks.com/ci>

- Several years of Technical Writing experience as a Process Engineer (8 years) who led technical projects where I wrote Design, Purchase, and Operational specification documents. I have also had two technical writing jobs, and I have done technical writing in other engineering and software jobs.
- Microsoft Operating Systems (XP,7,10)
- Ubuntu Linux, LAMP environment programming, Cpanel Admin, PHPMySQLAdmin
- Computer Networking Principles
- Graphic image editing and using GIMP, and other graphic illustrator apps

UNLV School of Life Sciences.....May 1st 2012 to June 30th 2012

University of Nevada Las Vegas

4505 Maryland Parkway

Las Vegas, NV 89154-4004 USA

Software Developer/Research Assistant

- I was hired to a 2 month contract by Dr. Martin Schiller to write a program for an Organism Relation Ontology (ORO) Miner which provides hierarchical and graphical representation of the different Organ Systems and their sub-systems. I had previously completed a test program for extracting Motif (amino acid code patterns) relationships and statistics from proteins (large sequences of amino acid codes);
- Both programs use combinations of software languages: DHTML, CSS, XML,

XMLDOM, HTMLDOM, JavaScript, MySQL, SVG, DOM, PHP, and others. I completed two programs for two different Organ System/sub-system data structures.

- These programs have event-driven GUI interaction for information selection from hierarchical tree display, and information display is in hybrid form node-based 2-D graphs and tables.
- These programs are on my website: <http://www.rlsworks.com/ci>
- The programs transformed MySQL database information to an XML database for application use. The programs use recursive iteration and active xml data objects for operation. I worked mostly from home on this project.

InsureZone.....January 31, 2011 to April 11, 2011

1070 W. Horizon Ridge Pkwy. Suite 204 Henderson, NV, 89012

Software Developer

- Web-based programming using XSLT, JavaScript, and AJAX to transform XML and HTML to Dynamic (D)HTML. The XML represented data for automated insurance quotations from on-line applicants. XSLT and Javascript (which both coded insurance rules per state) transformed the XML, and the HTML on the Insurance Carrier website, to (D)HTML submitted on the carrier websites to generate automatic insurance applications, which in-turn generated automatic quotations/declines/holds/etc from the Insurance carriers in XML format. Used J-edit and Text-pad to code XML and XSL.
- Used Virtual Office technologies like Trillian and Desktop VPN
- Used File versioning software called Perforce
- Obtained job by completing their programming test
- Technical Writing

Power Efficiency Corporation.....August 9, 2010 to October 29, 2010

839 Pilot Road, Suite A Las Vegas, NV 89119

Engineering Support Analyst/Technical Writer -Individual Contractor/Consultant

- Used Adobe In-Design to create product manuals for Electric Induction Motor Efficiency Controllers. This was for their existing and next generation products.
- Used Microsoft Word 2003/2007/2010 for editing
- Did conversion between PDF and Word formats
- Performed Graphic illustration format conversions
- Used Picasa software and Print Screen utility for Screen Capture
- Worked on Web-based-Knowledge-Repository using Microsoft Visual Studio 2010 and its LINQ-to-SQL feature.
- Edited the company technology white paper for better technology clarification.
- Gave consultation for improvement of engineering and corporate inter-relationship of processes. Helped formulate Product Requirement and Product Development procedures and documentation

Southern Nevada Health District.....September 2005 to March 2006

625 Shadow Lane, Las Vegas, Nevada 89127

Environmental Health Engineer

- Review of Site Plans submitted to Clark County for Residential and Commercial development, to inspect whether water and sewer design meets county design criteria and safety standards (including proper relationship to public utilities)
- Learned and used Python programming language and Microsoft Visual Basic
- Used Microsoft Word to write Work Process Definitions for my Engineering Review processes
- Learned and used Microsoft Visual C#.Net programming language to write work process automation program
- Used Auto-Cad to inspect Land Development plans
- Learned and used Arc-View GIS to apply county design criteria to Land Development

Aderholt Specialty Las Vegas.....August 2004 to December 2004

5525 South Valley View, Las Vegas, NV, 89118

Construction Worker

- Construction work involving removal, transport, and disposal of rapidly accumulating debris in work areas to prevent the impediment of other concurrent construction operations in the building of a high-rise tower for Caesar's casino.

Red Inc. Communications Las Vegas.....December 2002 to February 2003

3320 North Buffalo #205, Las Vegas, NV, 89129

Technical Writer/Editor

- Used Microsoft Word to perform technical editing of Nuclear Engineering directive and procedural documents in support of Bechtel Nevada
- Used Microsoft Excel to log a daily record of my work history

Center for Enterprise and Information.....January 2002 to February 2002

Clark County Government Building

Systems Technician Trainee

- Temporary stint of Systems Technician experience of desktop maintenance of Windows 98/NT/2000 Operating System
- Use of Internet and Windows Networking Techniques to install applications on Desktop computers
- Hardware component replacement for Desktop computers
- Hardware and software imaging for automated install to groups of desktop units

College Student and Christian Ministry.....September 1996 to May 2001

Las Vegas, Nevada

- Served as a Deacon and Usher and Teacher and Outreach Leader at my church
- Served at the local Las Vegas Rescue Mission
- Attended classes at UNLV and CSN totally 140 credit hours in mostly Computer Science, Math, and Liberal Arts
- Received several academic honors including: National Collegiate Math Honor Society (UNLV), Human Behavior Student of the Year (CSN), NASA Science Scholarship (CSN), and others

Allied-Signal Aerospace (now Honeywell.....May 1983 to January 1991

2001 Bannister Road, Kansas City, Missouri, 64128

Process Engineer (became Senior Process Engineer)

- Provided Engineering Support to the Printed Circuit Board factory's chemical/mechanical processes with process and equipment optimization and design
- Performed the Lead Engineering responsibility in the procurement of two computer-automated optical inspection systems used for quality-verification of machining and circuitry inspection operations
- Designed mechanics and software algorithms which enabled system automation function of the optical inspection system
- Collaborated with in-house support departments (numerical programming, maintenance engineer, metric-logical engineering) in design of system software interfaces, maintenance and calibration requirements for the optical inspection system
- Authored the technical documents for Purchasing and Operational specifications of the system
- Led the design, procurement, and implementation functions including the provision of consultation to vendor design personnel during system build

Educational History

1. The University of Kansas.....September 1980 to May 1983 .

Lawrence, Kansas Degree/Credits: B.S. in Mechanical Engineering

2. Community College of Southern Las Vegas, Nevada.....September 1996 to May 2002

- Credits: 59 credits, 3.44 GPA
- Studied: Psychology Computer Technology (Microsoft Windows, Oracle PL/SQL, Java, Novell and Windows computer networking)
- Named Human Behavior Student of the Year (1997)
- Received a NASA Science Scholarship

3. University of Nevada Las Vegas, Nevada.....September 1998 to May 2001

- Credits: 81 credits, 3.27 GPA
- Studied mostly Computer Science, Math, and Liberal Arts
- Recognized for Outstanding Academic Achievement from the UNLV Alliance of Professionals of African Heritage
- Inducted into the UNLV Student Chapter of Phi Mu Epsilon Mathematical Association of America
- Excelled in writing technical/mathematical computer algorithms such as:
 - ➔ Custom Database (with custom data structures and recursive search)
 - ➔ Digital Image Processing (with Discrete Calculus and Statistical techniques applied with Microsoft foundation classes to pixel matrix)
 - ➔ Parallel-Processing involving messaging between Unix system level processes within nested looping structure