

Richard Sypert

Web Developer

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Web Portfolio: <https://rsypertjr.net> - This portfolio is developed with a LAMP stack and the CodeIgniter framework

Work Experience

Data Scientists - AI Training (Remote Work, Contract) Outsider

Las Vegas, NV

March 2024 to Present

- I contribute to training generative artificial intelligence models, helping them become proficient data analysts
- Training AI large language models, helping cutting-edge generative AI models write better code and data science writing
- Training projects typically include discrete, highly variable problems that involve engaging with these models as they learn
- Solving complex data problems, like data generation, data cleaning, data visualization, and machine learning modeling
- Optimizing code to run at maximum efficiency
- Writing robust test cases to confirm code works efficiently and effectively • Writing human-readable summaries of problems
- Writing explanations of how data science can solve problems and evaluate various solution approaches

Web Portfolio Development

December 2021 to Present

I added **applications** to my web portfolio at: <https://rsypertjr.net> that utilize technologies of Laravel (Mix) with React, React with Hooks, React Bootstrap, and other technologies (<https://laravelvotes.rsypertjr.net/votes-table>).

Explanation of Experience Gaps

Since 2001

- In 2001, I completed about 140 hours in Computer Science focused education. During the following years I sought employment in computer programming, although I gained some employment in other areas such as construction, technical writing, and environmental health engineering.
- I remained diligent in pursuing computer programming work and began to land web development work years 2011, 2012, and again in 2018. During all this time I maintained a high interest in computer programming which eventually became focused on web development.
- I developed a web portfolio (<https://rsypertjr.net>) that highlights the work I've done in the various fields, including showing applications I've done and the code. Some apps in my portfolio were part of the job application process and others were the result of personal desire to learn and utilize modern web development technologies.

Front End Developer

Northwest Doors LLC

Puyallup, WA

November 2021 to December 2021

I used JavaScript, Java Spring Boot, SVG, HTML, CSS, JQuery, Bootstrap, etc. to code a drawing engine development system for garage doors with embedded windows.

Web Developer

Townsquare Media/AnalyticOwl - Purchase, NY September

2018 to March 2020

I was laid off due to the Covid-19 corona virus.

My work environment included:

- Visual Studio Code, Php Debug extension to VSCode
- Development and production stack was LAMP
- Chrome Dev Tools for Javascript debugging
- Git, Node.js, Vue.js, Vue devtools chrome extension
- Vue.js is a Node.js component-based technology which is similar to Angular.js and React.js which also are Node.js component-based. My web portfolio shows application development that I've done with Angular.js and React.js at: <https://rsypertjr.net>
- Google Analytics
- Slim3 micro framework for PHP
- Ubuntu 18.04 and 19.10 for Linux operating system
- Tilix for command line Linux
- Command line Postgresql, pgAdmin3 and 4 for managing databases
- NPM, Composer, and Gulp for package managing Used Node.js to:
 - Code modules used to convert Excel data into executable, regular formatted .csv data by using regex on .xls file row data to filter out unwanted data and irregular formatting.

Used PHP to:

- Parse .csv formatted data into JSON format for processing in front-end javascript-based code. Creating new properties within the model data by coding service and controller classes.

Also:

- Created new front-end features for data verification (prevent data duplications, etc.
- Back-end parsing of data in PHP-code to enhance data modeling for new front end representations.
- Filtering/reformatting of large and very irregular .xls log file data using regex (within Microsoft Visual Studio editor) to an executable format.

Software Developer/Research Assistant

UNLV School of Life Sciences - Las Vegas, NV

May 2012 to June 2012

University of Nevada Las Vegas 4505

Maryland Parkway

Las Vegas, NV 89154-4004 USA

- I was hired to a 5 week 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, DHTML, JavaScript, MySQL, SVG, DOM, PHP, and others within a LAMP stack.
- 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.
- 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.

Software Developer InsureZone -

Henderson, NV January 2011 to April 2011

- 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 Jedit and Textpad 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

Documentation Specialist, Engineering Support Analyst/Technical Writer -Individual Contractor/Consultant

Power Efficiency Corporation - Las Vegas, NV August

2010 to October 2010

- 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

Environmental Health Engineer

Southern Nevada Health District

Las Vegas, NV

September 2005 to March 2006

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)

- Used Microsoft Word to write Work Process Definitions for my Engineering Review processes
- Used Auto-Cad to inspect Land Development plans
- Learned and used Arc-View GIS to apply county design criteria to Land Development

Construction Worker

Aderholt Specialty Las Vegas -

Las Vegas, NV

August 2004 to December 2004

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.

Technical Writer/Editor Red Inc - Las

Vegas, NV December 2002 to February 2003

- 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

Systems Technician Trainee

Center for Enterprise and Information

January 2002 to February 2002

- 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

Senior Process Engineer

Allied-Signal Aerospace Kansas City

Kansas City, MO

May 1983 to February 1991

- 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, metrology 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

Education

Degree/Credits in Computer Science/Math/Psychology

- **Computer Science near degree equivalent at UNLV**
- **Community College of Southern Nevada - Las Vegas, NV**
 1. September 1996 to May 2002
 2. 1997 Student of the Year in Psychology
 3. Recipient of NASA Science Scholarship
- **University of Nevada Las Vegas (UNLV) - Las Vegas, NV**
 1. September 1998 to May 2001
 2. National Collegiate Math Honor Society

B.S. in Mechanical Engineering

- The University of Kansas - Lawrence, KS
- September 1979 to May 1983