

Al Piepho

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www.linkedin.com/in/al-piepho-fw-sw-engineer



Web Full Stack Developer

- 15+ years experience developing and debugging code for highly constrained Embedded Systems now applied to Web Applications and Systems.
- 3 years coding with Ruby and marshaling to Native C as part of a test tool stack
- Very Strong coder using various languages, most recently HTML, CSS, Javascript.
- Strong with code frameworks such Node, Express, MongoDB, jQuery, React. And test frameworks such as Selenium.
- 20+ projects for coursework from Lynda.com and FreeCodeCamp over past 6 months (see link at the end of this page)
- Several projects deployed on host servers like Heroku and AWS.
- A self starter who welcomes the really difficult problems.
- Always looking for opportunities to be a 'Force Multiplier' for my team with extra tools and process improvements.

Relevant Experience

Web Applications

- FreeCodeCamp "Front End Web Development" certification. An estimated 200 hour task...I completed it in 26 days.
- Completed 20+ Web courses from LinkedIn/Lynda.com in past 6 months
- Working thru 50 Day "CSS Challenge" to build complex graphics with only CSS...no JS
- Continually reading related to Web Development and the rapidly changing landscape.
- Built and deployed Rails site that is a template for baseball player profiles that is customizable with specific player information
- Completed deployed the "Ruby on Rails Tutorial" by Michael Hartl
- Built an RPN Hex Calculator as a Chrome Extension.

Web Servers

- Wrapping up FreeCodeCamp "Back End Web Development" certification. Emphasizes Node.js, Express, MongoDB
- Built custom Google App Engine server for de-coupling GWT Web application project from device the application deploy on

Testing Systems

- Very familiar with Unit Testing concepts and have written unit tests for most projects

- Used Selenium and SauceLabs for testing a GWT app.based web application
- Recently used Selenium based Ruby framework to 'web scrape' baseball statistics

Embedded Systems Programming

- Have worked on many successful embedded systems projects including Digital Still Cameras, Digital Video Cameras, and high speed SERDES (Serialization/Deserialization) ASIC cores
- Expert in code size issues
- Expert in debugging embedded systems with very little support for significant logging

Programming Languages, Operating Systems, Etc.

- HTML, CSS, Javascript, Ruby, C, C++, Asm, Java, Linux Scripting, JSON, XML, REST
- Git, Github, Bitbucket, Cloud9
- Know what "Chunky Bacon" means
- Avid listener of "Software Engineering Daily" Podcast and others
- Linux, Mac, Windows

Work History

Web Developer and Full Stack	- Individual Consulting, Ft. Collins CO	2017-
Senior Firmware Engineer	- Broadcom LTD, Ft. Collins CO	2013-2017
Firmware/Software Engineer	- Schneider-Electric, Ft. Collins CO	2008-2013
Software Engineer - NAS Storage	- Hewlett Packard, Ft. Collins CO	2007-2008
Firmware Engineer - Digital Cameras	- Hewlett Packard, Ft. Collins CO	2002-2007
SW Lead - Consumer Entertainment	- Hewlett Packard, Ft. Collins CO	2001-2002

Training

Front End Development Certification - FreeCodeCamp
 Web Development Course Certifications (29 to date) - LinkedIn/Lynda.com

Education

Bachelor of Science, Electrical Engineering - University of Colorado, Boulder CO
 Bachelor of Science, Computer Science - Iowa State University, Ames IA

Awards

Author on 6 U.S. Patents, see LinkedIn page for more details

Portfolio

<https://alpiepho.github.io/project-portfolio/>

