

Derek Ryan Hildreth

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derekhildreth.com

Skills

Services: Apache (LAMP), Nginx (LEMP), MySQL, SQLite, Redis **OS:** Linux, Unix, Embedded Linux, Mac OSX, Windows **Cloud:** AWS S3, CloudFront, Google App Engine, SOAP, WSDL, REST API Development and Integration, Linode VMs **Software:** Git, Composer, NPM, Vim, GDB, PHP Unit Testing **Frameworks:** Laravel, Pyramid, Twitter Bootstrap, Zurb Foundation, Tailwind CSS **Languages:** PHP, Python, HTML, CSS, JavaScript, Node.js, jQuery, Regex, JSON, XML, XPATH, Bash Shell Scripting

Experience

- **Technologic Systems** Fountain Hills, AZ (*Telecommute*)
Full Stack Web Developer / eBusiness Manager May 2014 – Present
 - Developed custom e-commerce website using Laravel PHP, Forge, Envoyer, AWS, Linode VMs, Apache Solr
 - Developed automation tools and applications to assist with business operations
 - Raised brand awareness through relevant and engaging projects and write-ups published in print and online
 - Strategized to improve website traffic scores by 250% and first SERP appearances by 350%
- **Oracle Corporation (Legacy RightNow Tech)** Bozeman, MT
Application Engineer 2, Current Engineering Feb. 2013 – May 2014
 - Resolved software defect incidents reported by customers in APIs, mail processor, and CX Console
 - Determined incident service pack eligibility for inclusion in older versions of the product
 - Communicated effectively with development teams to resolve incidents using approved patches

Applications Engineer 2, Core API Scrum QA Aug. 2012 – Feb. 2013

 - Performed QA testing and unit test development on highly technical Core API scrum team
 - Demonstrated new product functionality to product owner and other interested stakeholders
 - Enforced the definition of story and feature package acceptance and completeness
 - Analyzed user requirements for stories and provided end-user point of view feedback to product owner
 - Worked directly with product code and source tree in development environment

Applications Engineer, CX Platform QA Sept. 2010 – Aug. 2012

 - Automated and maintained testing of APIs using Agile & Continuous Integration methodologies
 - Developed and supported test automation frameworks for CX Console UI and Customer Portal UI
 - Ran quarterly regression testing on upcoming general product releases to ensure the highest quality possible

Publications and Projects

- MT Private and Public Parcel and Hunting District XYZ-Tile Server* Feb 14, 2020, *Personal Website*
QGIS mapping project to collect and serve xyz map tiles for private parcels and hunting districts for mobile app usage
- 4-20 mA Current Loop Devices (Code Gist)* Oct 16, 2019, *Circuit Cellar*
Example project demonstrating 4-20 mA current loop devices and process control systems
- Working with TTL UART Sensor Devices (Git Repo)* Aug 21, 2018, *Fierce Electronics (Formally Sensors Mag)*
A project write-up to read data from a sensor over TTL UART interface and apply it to a parking indicator
- Working with I2C Sensor Devices (Code Gist)* Aug 21, 2018, *Nuts and Volts*
Connecting and programming an I²C sensor to an embedded computer to report temperature, pressure, and altitude
- Adding IoT Flare to a Hot Springs and Spa Business (Git Repo)* May 18, 2017, *Linux Journal*
Setup of a REST API server using Node.js and web client to pull pool temperature in real-time
- Collaborative Digital Signage Project (Git Repo)* Feb 1, 2017, *Technologic Systems' Blog*
Project using Node.js server and client code with websockets to update HTML canvas on every connected client

Education

- **Brigham Young University - Idaho** Rexburg, ID
Bachelor of Science in Computer Engineering Jan. 2004 – Dec. 2009
 - **BYU-Idaho Linux/Unix Society Coordinator and Web Developer**