

Resume For Chris L. Troutner

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Online Portfolio: <http://ChrisTroutner.com> & <http://IslandWebHelp.com>

Work History:

- **Freelance Full Stack JavaScript Developer at Island Web Help – June '13 to Present:** Island Web Help (<http://IslandWebHelp.com>) is my freelance company. I build websites and web apps for small to medium sized organizations. I primarily work with KeystoneJS, but also work with WordPress and Shopify. I do a lot of front end customization as well as server-side app development. I typically host and manage sites on a cloud VPS using AWS or Digital Ocean, running Ubuntu Linux, with containerized services running in Docker.
- WellFuture.com: WellFuture is a Shopify e-commerce store that sells probiotic supplements for kids. The site runs on top of ConnexCMS but uses the **Shopify** API to handle ecommerce transactions.
- Power Systems Plus (powersystemsplusinc.com) is a generator sales, service, and part company based near Portland, Oregon. The site is built on top of **WordPress** and uses the **WooCommerce** plugin to handle shopping cart functionality. The site is responsive, making online shopping as easy on a cell phone as it is from a desktop.
- [CrumbShare](http://CrumbShare.com) is a SaaS *platform* that works with the [RPI Tracker](http://RPITracker.org) device. I developed both and am in the processing of bootstrapping it as a side business. The device/service is currently in beta testing.
 - CrumbShare.com: Crumb Share is a service that works in conjunction with a small tracking device (RPI Tracker). The business targets travel writers, travel bloggers, and people who adventure in boats and vehicles who want to easily share a breadcrumb trail of their travels on social media.
 - RPI Tracker (CrumbShare.org): This is an embedded tracking device, which is also a full stack application. The hardware is a Raspberry Pi (RPI) minicomputer and a USB GPS to create a high-accuracy tracking device. The device is controlled through the same MEAN stack used on larger servers. The UI uses Bootstrap and the device is controlled by the user through a web browser, via smart phone or computer. The device syncs with the CrumbShare server to upload tracking data. Code is available at github.com/christroutner/RPI-Tracker
- RPIOVN.org: RPI Open Value Network is a cooperative for developers of the RPI minicomputer. The RPIOVN dashboard is a simple accounting application used for members of the cooperative to track time contributed to open source projects. Hours are accounted and profit is distributed fairly. All time tracked is transparent to all members.
- RPIBroker.org: My newest open source project, aspires to create a P2P marketplace of RPI and other IoT devices to create anonymous, censorship resistant Virtual Private Servers.
- **Web Designer & Full Stack Programmer at Skagit Publishing – Oct '15 to Present:** My largest freelance client. I work remotely, part time for Skagit Publishing. I design and maintain websites for newspaper advertising clients, and I develop apps for their parent company. Most of my work uses the **KeystoneJS** CMS open source **MEAN** stack using **Node/Express.js** and **MongoDB**. Front end websites are designed using **jQuery** and **Bootstrap**. Front end frameworks used have been **Angular**, **React**, and **Backbone**. Sites are packaged using **Docker** and deployed via **Digital Ocean**. My department is essentially a company within a company. Highly autonomous, we provide design and development services when an advertising client also needs a website or web app.
 - Through my work at Skagit Publishing, I created ConnexCMS (ConnexCMS.com). It's an open source content management system (CMS) similar to WordPress, but the entire software stack is built using JavaScript only (no other languages) and released under the MIT license. It builds on top of the KeystoneJS MEAN stack by expanding its **MongoDB** database models and **REST APIs**. **Backbone.js** and **Require.js** are used for the front end framework. **Mocha** is used for server side testing. **Jasmine** is used for front end testing. **Continuous integration testing (CI)** uses Travis CI. After 2 years in development, stable version 1.0 has been released. Hooks for site templates and plugins, similar to WordPress, have also been fully developed.
 - Pioneer-ads.com: Pioneer News is the parent company of about a dozen local newspapers in three different states. I was hired by Pioneer to develop an order form used to coordinate advertising between their child companies. Data in

this form is then passed along to the SiteScout Real Time Bidding (RTB) or Google's DoubleClick for Publishers (DFP) advertising systems. Continuous integration and reliability monitoring is achieved through action-based logs sent to the administrator any time a user triggers an exception.

- Physical Therapy Northwest (physicaltherapynorthwest.com) is a chain of three physical therapy clinics in Washington state. I built this site as part of my job at Skagit Publishing. The client wanted their site to have a 'Northwest' feel to it, and had a series of pictures that they wanted to use for the large slider on the home page.
- More sites listed at IslandWebHelp.com
- **Test Engineer at Integra – 6/13-4/15: 1.5 Years** (integragroup.com): I joined Integra in order to transition from a career in hardware into commercial software. Integra was also my introduction to working on an **Agile Scrum** team. I worked in the QA department on their flagship product, DocuTrack, which is a document management software for pharmaceutical companies. Unlike previous jobs, there was no hardware component. It was all software. Roughly half my time was spent in manual UI and SQL database testing and the other half was spent writing automated test-cases using JavaScript. I also took charge of maintaining the internal testing documentation for the QA team and assisted in the build out of a **Continuous Integration** Test system that automatically tested the nightly build against an extensive library of automated test cases.
- **Test Engineer / Project Manager at the PACCAR Technical Center – 1/10-4/13: 3.5 Years:** At PACCAR I managed several engineering projects, coordinated the efforts of technicians in several departments, managed project budgets with a cumulative total of over \$500,000, and authored and maintained technical documents that governed company best practices. At PACCAR I took several courses on Six Sigma and Reliability Engineering. Many of these lessons translate directly to **Agile Scrum** testing, as Agile was developed from Six Sigma principles. I reported to management at every level of the company and never received anything but praise for my work. References available upon request.
- **Electrical Design Engineer at Synapse Product Development – 6/08-12/08: 6 Mo.** At Synapse I designed several circuits for clients which included Nike, Panasonic, Tetracore, Yakima, and other companies. These products included medical equipment, sports equipment, automotive electronics, and consumer products. My contact expired early due to the 2008 financial crisis.
- **Test Engineer at Xerox – 6/07-6/08: 1 Year.** My primary duty was to design test fixtures for the functional testing of printer and copy machine components built in their China manufacturing facilities. This position utilized my skills in circuit design as well as software development of firmware and PC-side scripting in JavaScript. Using JavaScript, I created a suite of test-cases that exercised the software and hardware in their printer products. In addition to my primary duties, I designed a new system for interfacing with oscilloscopes during functional testing that saved the company \$2,500 per fixture or roughly \$20,000 per year.

Education:

Degree: BS in Computer Science & Electrical Engineering (dual degree) from Oregon State University – Graduated with a 3.15 GPA

Languages: JavaScript, Node.js, Express.js, MongoDB, SQL, QBasic, Visual Basic, PBasic, C, PIC and AVR assembly, Java, Matlab, HTML5, CSS

Cumulative Experience: JavaScript: 10 years, AWS: 9 years, Creating & Consuming REST APIs: 4 years, Node.js: 3 years, Bootstrap: 3 years, Backbone.js: 2 years, Angular.js & React.js: 3 months