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Development and Systems Experience

Programming:

- **Clojure / ClojureScript**, Pedestal, re-frame, kee-frame, reagent, Luminus, Compojure API, Ring, Spec, core.async, mount, etao.in, hugsql
- **PHP 8** (Zend Certified Engineer), Laravel, Laminas, Symfony, Wordpress, Magento, Drupal, phunit, composer, php-fpm
- **Javascript**, NodeJS, Vue, React, angular, HTML5, CSS3, jQuery, underscore/lodash, npm
- **SQL** (MySQL, Postgres, SQLite), Elasticsearch, Redis, Memcached
- **C++ 20**, stl, juce, audio, gcc, clang, cross-platform (Linux/Mac/Win)

Cloud:

- **AWS** (EC2, S3, RDS, Beanstalk, ECS, Route 53, SQS, Elasticache, Elasticsearch, etc.), Digital Ocean, Linode, Vultr, Cloudflare, Hetzner

Systems:

- Docker, Docker Swarm, Ansible, Kubernetes, Nginx, Apache, KVM, Firecracker, OpenNebula, Linux, FreeBSD, macOS, Windows

API:

- REST, JSON, JSONP, AJAX, SOAP, CORS, XML, XSL/XSLT, RPC

Other:

- Java, Python, Perl, Bash, Pascal, Scala, VB, Git, ollama, Jan.ai, OpenAI API, Jira, Trello

Work Experience

Co-Founder and CTO - Incodepany LLC | Vancouver, WA | 12/2019 - Present

- **Bootstrapping a profitable company to six figure revenue providing an app store for GPL WordPress plugins:** <https://pluginsforwp.com/> and <https://pluginizer.com/>
- Built our Plugin Manager, an **app store for managing plugins and themes**, as a WordPress plugin using **Vue, Bulma, Buefy, and Quasar** on the front end: <https://pluginsforwp.com/download-plugin-manager>
- Built a system to spin up WordPress instances on demand and install plugins and themes automatically for testing using Docker Swarm
- Built systems for updating our products from various sources using **Clojure, Etaoin, and Puppeteer** to drive Chrome through Chromedriver
- Built a REST API for our that allows downloading, managing, and updating our plugins and themes to support our Plugin Manager

Senior Software Engineer - Unified Compliance | Lafayette, CA (Remote) | 03/2014 - 10/2022

- **Lead Engineer working with multiple teams to deliver multiple products**
- Hired and mentored engineers, doing code reviews, and helping others to achieve their fullest potential
- Worked on multiple GUI apps, APIs (including a public API), and other servers built on top of **Clojure/Luminus, ClojureScript/Reagent/Re-frame, PHP 5/7/8, Zend Framework/Laminas 2/3, Javascript (ES6), Angular, and Bootstrap running on AWS. Used ElasticSearch, Docker, Stanford Core NLP, Postgres, MySQL, Redis, Iodash (underscore.js), SQS, neo4j, beanstalkd, d3, jQuery, babel, git, JIRA, Bitbucket, Leiningen, composer, brunch, npm, bower, xdebug, Blackfire.io**
- Introduced Clojure and built two backend Clojure servers as well as a new public API for Compliance and Natural Language Processing. Used **Stanford Core NLP** for NLP. Used **Luminus / Compojure API** for the first projects, then switched to **Pedestal** for the new API
- Created and maintained a **scalable infrastructure on AWS** for multiple interdependent apps
- Migrated PHP systems from PHP 5 to 7 to 8 and a live database from MySQL to Postgres
- Built a natural language processing system on top of **Stanford Core NLP** to detect various parts of sentences and how they're used and match them against known sentences for classification
- Worked with **ElasticSearch** to provide fast, fuzzy, and custom search results

Senior Software Engineer - Lead (Contract) - Malwarebytes | San Jose, CA | 10/2012-02/2013

- Worked on an internal tool to help researchers analyze new malware
- Used **PHP (Symfony 2), Javascript (jQuery), CSS (Bootstrap), Twig, Composer, EC2, S3, DynamoDB, MySQL**, Hadoop and Hive through EMR

Senior Software Engineer / Architect (Contract) - Genentech | S. San Francisco, CA | 09/2012 - 11/2012

- Built a peer to peer and server based videoconferencing app using **PHP and Javascript, OpenTok, Silex, Backbone.js, Composer, RabbitMQ, MySQL** and deployed on **Heroku**
- Built a **REST API** and architected the database

Senior Software Engineer (Contract) - Stella and Dot LLC | San Bruno, CA | 01/2012 - 07/2012

- Worked on adding new features, scaling, and fixing **Magento** as well as other apps

(<http://www.stelladot.com/>)

- Used **PHP, Zend Framework, JavaScript, jQuery, MySQL, CSS**, AJAX, JSON, XML, SVN, Apache, Memcached, Varnish, Splunk, Jira, phpunit

Senior Software Engineer (Contract) - BitGravity, Inc. | Burlingame, CA | 04/2011 - 12/2011

- Used **PHP, JavaScript, YUI, MySQL, CSS**, AJAX, JSON, XML, SVN, Apache, Lighttpd, Memcached, Spock Proxy, FreeBSD, Trac, PHPUnit, Jenkins, Capistrano to build the main dashboard app
- Integrated **Zend Framework** into the existing custom MVC framework and worked with giant, sharded MySQL databases

Lead PHP Engineer (Contract) - Genentech | South San Francisco, CA | 03/2011 - 05/2011

- Improved an internal application for hiring contractors by adding new features, debugging, speeding up queries, and refactoring code (**PHP, Javascript, FileMaker, IIS**)
- Introduced source control (**SVN**), a standard release process, as well as development and production environments and other best practices

Lead UI Engineer (Contract) - TheFind Inc. | San Francisco, CA | 05/2010 - 02/2011

- Worked on building TheFind's REST API, frontend, and features supporting mobile development
- Used **Javascript (jQuery), MySQL, HTML5**, CSS3, AJAX / JSON, XML, Smarty, SVN, Git, Trac to build the main site which had **30 million unique hits a month**

Software Engineer (Contract) - ReputationDefender (Reputation) | Redwood City, CA | 11/2009 - 03/2010

- Used **PHP 5** and two custom **MVC** frameworks, **Javascript (jQuery / mooTools), MySQL, XHTML, CSS**, AJAX / JSON, XML, Smarty, SVN, Bugzilla to build various apps
- Implemented **Facebook Connect** and **oAuth** with **LinkedIn** for parsing data

Senior Software Engineer and Chief Architect (Contract, Remote) - Tripping Intl, | San Francisco, CA | 07/2009 - 12/2009

- Created a travel social networking site to connect travelers wanting a more local experience with hosts having a spare couch or room and maintained the company's servers
- Architected, designed, and implemented the core web application: <https://www.tripping.com/> using **PHP 5, Zend Framework, jQuery / jQuery UI, MySQL, XHTML, CSS**, AJAX / JSON, XML, external REST/SOAP APIs, MyBB and MyBB integration, APC

Software Engineer (Contract) - Mercantila, Inc. | San Francisco, CA | 03/2009 - 07/2009

- Increased ad revenue **10x** in one month using **multivariate testing** and optimizing load times
- Worked on e-commerce stores, adding revenue driving features using **jQuery and jQuery UI**

Software Engineer - GoingOn, Inc. | San Francisco, CA | 07/2008 - 03/2009

- Developed a socially enabled learning site for the University of Pennsylvania
- Used **PHP, Javascript, Drupal, CSS, XHTML, AJAX, XML, XSL, XSLT, JSON, MySQL**

Software Engineer (Contract) - LiveNation (SignaturesNetwork) | San Francisco, CA | 03/2008 - 06/2008

- Customized the front and backend of **Magento** into a business to business e-commerce platform
- Used **PHP, Magento, Zend Framework, Javascript (jQuery), MySQL 5, XHTML, CSS, XML**

Senior Programmer / Developer - Olson Research Group, Inc. | Ewing, NJ | Los Altos, CA 06/2005 - 03/2008

- Led technical development for a small team developing web surveys
- Used **PHP, Javascript, Perl, Python, MySQL, XHTML, CSS** to develop apps and maintained servers

Education and Projects

- Graduated from **Villanova University** with a B.A.H. on a **Full Presidential Scholarship**. GPA: **3.5**
- Building a hardware sequencer in **C++** using **Juce** and custom hardware: <https://phenotypemusic.com/>