

Joseph Hallenbeck

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Work Experience

- Software Engineer**, Research Square, Durham, NC 1/2015 – Present
- Refactored a 1.4 million loc enterprise PHP application into two separate applications addressing distinct business contexts.
 - Introduced and championed the adoption of behavioral driven development
 - Used domain driven design in a brownfield and greenfield environment to craft enterprise software that mirrored the language and processes of business operations.
 - Maintained legacy Zend Framework 1 and Zend Framework 3 applications; developed Slim framework applications to create web APIs to support a microservice architecture.
 - Worked with a diverse scrum team in a continuous integration workflow. Composed unit tests. Engaged in team code reviews.
 - Successful remote worker. Business was based in Durham, NC but had team members in Arizona, Missouri and Kansas. Kept abreast of team and business needs via e-mail, Slack and Google Hangouts.
- Owner, Software Engineer**, Joseph Hallenbeck LLC. 7/2009 – Present
- Analyzed client needs, designed web site solutions, and implemented those solutions as WordPress themes.
 - Developed corporate website for Sunset Office Cleaning which achieved a #1 rank on Google for “Sioux Falls Office Cleaning.”
- Developer**, 44Interactive, Sioux Falls, SD 1/2013 – 12/2014
- Maintained PCI compliance. Improved system security through regular maintenance and proper user permission segmentation.
 - Performed daily log reports and responded to system stability issues as they arose. Increased production system up-time from 97% to 99.99% on a server that saw 50k+ unique visitors per day.
 - Initiated internal documentation using a team Wiki and password vault to assist with team collaboration.
 - Refactored company’s custom CodeIgniter based CMS. Moved CMS into a team-supported Git repository, normalized database architecture and introduced use of object-relation management tools to decrease database calls and increase ease of development.
 - Addressed OWASP security issues in CMS including potential XSS and injection attack vectors.
 - Wrote scripts to automate deployment and system debugging using Python and BASH. Wrote command line scripts to perform mass updates to CMS.
 - Launched custom e-commerce cart solutions. Built HTML5 drawing tools. Built AJAX-heavy UX front-ends. Interfaced with external APIs such as Facebook, Google, and CakeMail.

Developer, Gage E-Services, Sioux Falls, SD 7/2011 – 1/2013

- Developed Joomla and WordPress websites from start to finish including business analysis of client needs, formulation of client specs, handling markup of designs, database design, and back-end development.
- Developed e-commerce sites using Lemonstand, custom WordPress sites, and Joomla modules.

Lead Park Ranger, Jewel Cave National Monument, Custer, SD 5/2008 – 9/2011

- Lead a diverse team of seasonal park rangers. Provided mentoring for new rangers and assisted with annual training and performance evaluations.
- Edited, wrote, and designed layouts for full-color activity booklets, annual newspapers, advertisements, trail maps, press releases, public correspondence, newsletters, e-mails, and reports.

Skills

Languages: PHP, Javascript (ES6), SQL, Shell, Python
Front-End: HTML5, CSS & CSS pre-processors, Some L^AT_EX
Frameworks: Zend Framework 1 & 2/3, Slim, CodeIgniter, Laraval4, Silex
Content Management: WordPress, Jekyll, Joomla 1, Lemonstand v1
Common APIs: Quickbooks API, ZohoBooks API, Google Maps API, Authorize.Net API, Paypal REST API, Elastic Search
Message Queues: AWS SNS & SQS Queues, Beanstalk
Operations: Docker Containers, Linux (CENTOS, Ubuntu), NGINX and Apache HTTP server administration, MySQL/MariaDB databases
Software: Adobe CS Suite, VIM, Git version control
Concepts: Behavioral Driven Development, Domain Driven Design, microservice architectures, strong grasp of object orientated programming, database design, and design patterns
Soft Skills: Excellent technical communication skills, familiarity with graphic design and UI/UX, familiarity with common software development methodologies (Agile, Scrum, etc.), git-flow, pair programming, code reviews and continuous integration workflows.

Education

Real Time Interactive Simluation, DigiPen Institute of Technology, Bellevue, WA
Courses Taken: Linear Algebra, Calculus I, Computer Environment I & II, Operating Systems I, C Programming Language, C++ Programming Language

B.A. Philosophy and English, Augustana College, Sioux Falls, SD, 2009

Honors

Graduated Magna Cum Laude
Dean's List, all semesters
Sigma Tau Delta Literary Honors Society
Visiting Scholar Seat, Harris-Manchester College, University of Oxford
Eagle Scout