

# Joseph Hallenbeck

## Address

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## Online

portfolio/blog: [joehallenbeck.com](http://joehallenbeck.com)  
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## Work Experience

- Software Engineer**, Research Square, Durham, NC 1/2015 — Present
- Maintained legacy support and new feature development for an enterprise Zend Framework PHP application responsible for directing workflows and task assignment for a team of 300+ remote editors and translators
  - Refactored a 1.4 million loc enterprise monolithic PHP application into smaller business context based micro-services which communicated via API calls and AWS SNS/SQS messages
  - Migrated existing projects and greenfield projects towards a Domain Driven Design layered architecture
  - Championed the adoption of behavioral driven development
  - Worked with a 100% remote team; used a scrum-based methodology for project management, unit testing, code reviews, and pairing to maintain team cohesion and project success
- Owner, Software Engineer**, Kynda Consulting LLC. 9/2015 — Present
- Analyzed client needs and developed Wordpress themes to match corporate branding and marketing specifications.
- Developer**, 44Interactive, Sioux Falls, SD 1/2013 — 12/2014
- 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.
  - 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.
  - Addressed OWASP security issues in CMS including potential XSS and injection attack vectors.
  - Brought production systems into PCI compliance.
  - Increased production system up-time from 97% to 99.99% on a server that saw 50k+ unique visitors per day and reduced server costs by 50%

**Developer**, Gage E-Services, Sioux Falls, SD

7/2011 — 1/2013

- Developed Joomla, Wordpress, and Lemonstand websites for a variety of clients
- Assisted with translating client needs into technical specifications

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

- Mentored new rangers and assisted with 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<sup>A</sup>T<sub>E</sub>X  
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: Linux (CENTOS, Ubuntu), Docker, Ansible, 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

## Education

**Real Time Interactive Simulation**, 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