

Kimberly Griggs

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Lead Software Engineer with two decades of expertise driving the transformation of client visions into scalable, highly accessible digital platforms. I specialize in modern full-stack development, creating intuitive front-ends with JavaScript Frameworks and building robust backends with PHP (Drupal, Laravel) and MySQL databases. Using agile methodologies, rigorous prototyping, and usability testing, I consistently deliver WCAG-compliant products that significantly boost user satisfaction and engagement.

EXPERIENCE

Lead Software Engineer, University of Oregon College of Education, 2011-Present

- Engineered and delivered 12+ complex web applications end-to-end for diverse clients, consistently exceeding expectations and achieving on-time, on-budget delivery through collaborative requirements gathering and scope definition.
- Spearheaded the comprehensive redesign of the DIBELS Data System's user interface, an assessment tool utilized by over 30,000 schools. Enhanced user experience, accessibility, and mobile responsiveness through WCAG compliance and a responsive design approach, benefiting educators across diverse devices.
- Architected and led the redesign and technical migration of the Oregon Screening Project, transitioning from a legacy LAMP stack to a modern Drupal and Laravel platform. This initiative eliminated significant technical debt and enhanced core functionality, ensuring long-term sustainability and improved service for over 10,000 Oregon parents, caregivers, and researchers.
- Executed the migration of 5 critical Drupal 7 sites to Drupal 10 on Pantheon, significantly improving deployment efficiency through the implementation of Git, Composer, Docker, and DevOps best practices.
- Developed and optimized user-centric, accessible front-end interfaces utilizing JavaScript frameworks including jQuery, Angular, Aurelia, and Alpine.js. Leveraged design systems to increase user satisfaction, validating designs through rapid prototyping and usability testing to optimize complex user flows.
- Led accessibility initiatives, ensuring Section 508 compliance for all projects by conducting rigorous testing, developing comprehensive training materials, and educating team members on best practices.
- Ensured project longevity and efficient knowledge transfer by developing and maintaining extensive technical documentation. Applied Agile methodologies post-launch to streamline bug management and accelerate feature delivery.
- Led and mentored a team of junior developers and student workers, cultivating a collaborative environment and enhancing skill development through effective code reviews and streamlined workflows.

Programmer Analyst II, Oregon State University Libraries, 2007-11

- Drove the development and implementation of 4+ innovative Ruby on Rails-based library services, including a cutting-edge GPS mobile application and an open-source Content Management System, used in over a dozen Libraries, positioning the library as a leader in technology adoption among its peers.
- Championed a user-centered design approach, conducting thorough user testing to gather valuable insights, iteratively refine web interfaces, and enhance the overall user experience, leading to increased user adoption and satisfaction.

- Promoted a culture of innovation within the library, actively researching emerging technologies, publishing peer-reviewed findings at relevant conferences, and sharing knowledge with colleagues to foster continuous learning and growth.

Application Developer, NIKE, 2005-06

- Contributed to the development of a B2B sales tool, leveraging Java and the Spring Framework to accelerate campaign launches and personalize customer interactions, resulting in improved sales performance and enhanced customer relationships.
- Played a key role in ensuring code quality and project adherence to timelines, actively participating in code reviews and contributing to the overall project management process.
- Championed the integration of user testing methodologies into the project development cycle, emphasizing the importance of user feedback in improving product design and functionality.

TECHNICAL SKILLS

- **Front-End Development:** HTML, CSS, SASS, Bootstrap, TailwindCSS, JavaScript, jQuery, AlpineJS, Angular, Aurelia
- **Back-End Development:** PHP (Laravel, Symfony, Eloquent), Ruby on Rails, Node.js, RESTful APIs
- **Databases:** MySQL, Relational Database Design
- **CMS & Frameworks:** Drupal (7-10), WordPress, FilamentPHP, Laravel Livewire, Zend Framework
- **DevOps & Tools:** Git, GitHub, Docker, Composer, Webpack, NPM, Pantheon, Jenkins
- **Testing & Quality:** PHPUnit, Unit Testing, Integration Testing, QA Testing, Code Reviews
- **Methodologies:** Agile (Scrum, Kanban), Object-Oriented Programming (OOP), Coding Standards, Technical Documentation
- **UI/UX & Design:** Responsive Web Design, WCAG/Section 508 Accessibility, Design Systems, UX Research, Usability Testing, SEO, Figma, Adobe Creative Suite

EDUCATION

Master of Science in Software Engineering & Human-Computer Interaction, University of Oregon, 2006

Bachelor of Science in Computer and Information Science, Minor in Mathematics, University of Oregon, 2004

SELECTED PROJECTS

Oregon Screening Project | Project Manager, Lead Designer & Developer

- Architected vital platform for parent/researcher data access.
- <https://osp.uoregon.edu>

Center on Teaching and Learning | Lead Developer

- Delivered robust application for a critical research center.
- <https://ctl.uoregon.edu>

CTL Marketplace | Content Coordinator & Lead Developer

- Managed and built e-commerce platform for educational resources.
- <https://ctlmarketplace.uoregon.edu>