

Jason McEachen

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Senior Web Application Developer

Improving Product Quality & Team Collaboration

Partner with customers and cross-functional teams to deliver exceptional solutions, foster collaboration, and drive product excellence. Leverage extensive expertise in software design and architecture, web technologies, and AI integration to support and mentor high-performing development teams. Constantly obtaining knowledge of the latest and upcoming technologies to solve critical problems and create positive user experiences. Advocate for code and configuration consistency, best practices, automated testing, and monitoring.

Technical Skills

- Deploying reliable, user-friendly Applications to the Cloud and On-prem
- AWS, Azure, Google, Rancher, Terraform
- RAG AI, AI Integration
- React, TailwindCSS, Storybook, Web components
- Docker, Kubernetes, L*MP
- CI / CD
- Git, Jenkins, Concourse, Ahoy, Ansible, Custom Scripts
- Behat, PHPUnit, Visual Regression
- Elasticsearch & Solr
- DDev, Lando, Custom Docker, k8s Stacks for local development

Security Clearances

- DoD SECRET (Interim)

Work Experience

Q2IMPACT, Arlington, VA

1/2025-4/2025

Senior Advisor & Lead developer, Digital Development and Advanced Analytics

Went from requirements document to live demo application in less than 3 months. Led development of an "Art of the Possible" AI Retrieval-Augmented Generation (RAG) project, guiding both the team and the customer in selecting the optimal technologies and architectures for performance, security, and maintainability. Demonstrations were widely attended and received high approval and engaging feedback before being shelved early due to DoD cuts.

- Convert user requests into workable requirements, cross-platform test steps, and automated tests.
- Analyzed security and technical requirements to design a comprehensive web-based solution.
- Developed a proof-of-concept React website with a Drupal back end.
- Translated AI vendor documentation and customer needs into a detailed functional specification.
- Integrated AI capabilities into the website using custom Web Components and Drupal API modules.
- Provided technical guidance and clarifications for supporting documentation and deliverables.

MINDPETAL, INC, Vienna, VA

8/2024 - 12/2024

Senior Drupal Developer

Maintained and improved the Dept of Labor's eFile/eServe web based tools and Appian integration.

- Convert user requests into workable requirements, cross-platform test steps, and automated tests.
- Collaborated with Appian team to identify best ways to improve both systems and integrations.
- Updated existing code to meet changing needs.
- Wrote custom modules providing new tools and functionality.
- Worked with customers to confirm solution UI usability and accessibility.
- Implemented an automated testing framework using phpUnit and custom helper classes.
- Orchestrate code change deployments with my manager, customers, and the devops team to test, validate, and deploy our updates.

HOWARD HUGHES MEDICAL INSTITUTE, Chevy Chase, MD**Senior Web Developer & Architect**

2014 - 2023

Led 6-person team accountable for public-facing Drupal websites to ensure user-friendly navigation, editor-friendliness, code quality, performance, and maintainability.

- Served as technical lead on automated testing initiatives for visual regression, unit, and functional tests.
- Promoted Drupal development best practices for HHMI.org, Janelia.org, and custom scientist sites.
- Designed web components and Drupal CKEditor widgets for an intuitive WYSIWYG experience with React, TailwindCSS, and Storybook.
- Accountable for code quality across products, providing reviews, suggestions, and mentoring to ensure a reliable and maintainable code base.
- Partnered on architecture, implementation, CI / CD, and management of Drupal 9 / 10 sites to Azure Cloud hosting.
- Delivered architecture changes and custom code development that met customer's unstated needs with focus on future enhancements.

BRIGHTSHINYOBJECT, INC, Olney, MD**Senior Drupal Developer & Architect**

2001 - Present

Developed hosting plans and migrate sites up to Drupal 10 for online schools and businesses.

- Led architecture, design, and development efforts migrating Drupal 7 sites to Drupal 10. Customers varied from large online schools, businesses, small offices, professional blog, and church sites.
- Oversaw custom theming to improve visitor and editorial UX, SEO, responsiveness, and accessibility, reducing homepage load time by 80%.
- Provided Module development for custom blocks, editorial widgets, and search facet customization.
- Orchestrated performance and reliability improvements through evolving automated testing, including phpUnit, Behat, pa11y.
- Managed collaboration, design, and development of PSOM at the University of Pennsylvania's Space Planning & Operations site and tools for 9 years.
- Provided leadership with customers on the creation, infrastructure, and continual growth of KWPOonline seminar registration website and management tools for 8 years.

EUREKAREPORT / BUSINESSPECTATOR, Melbourne, VIC, Australia**Senior Drupal Developer**

2012 - 2014

Maintained and improved zero-downtime Drupal 7 news sites. Lead developer of Salesforce operations and integration project.

- Consolidated 4 websites into a single Drupal 7 platform and took over Salesforce operations and integration.
- Directed remote Salesforce Developer team, leading integration, and customization projects.
- Optimized subscription workflows with custom commerce and Salesforce modules, improving customer retention and providing sales team with valuable customer insights, that resulted in a simpler and more pleasant customer interaction.
- Enhanced website to provide marketing with better tools, customer interaction, and simplified subscriptions.
- Streamlined editorial interfaces, content creation, and improved holistic form validation.

ALASKADISPATCH, Anchorage, AK**Drupal Full Stack Developer and Admin**

2010 - 2012

Developed Drupal6 / OpenPublish website that Editor and Designer needed in a short period of time.

- Spearheaded development of new Drupal 6 / OpenPublish site, and migration of existing Joomla site content seamlessly with zero downtime.
- Increased usability for all staff, including SEO integrations that quickly doubled traffic.
- Evolved platform to take advantage of growing opportunities, including RSS importing and aggregation, feeds into google and yahoo, and enhanced ways to present content which drastically improved visitor stickiness.
- Created "Kill The Spill," a custom Flash game for site to promote BP Gulf oil spill coverage.
- Maintained remote Linux / Apache / MySQL servers through multiple site migrations.
- Migrated to Acquia cloud when traffic outgrew hosting provider to boost the visitor experience.

CISCO SYSTEMS - SANITY TESTING, Research Triangle Park, NC

Web Tool Developer

2006 - 2009

Created a set of web-based tools to monitor and maintain a testing environment to smoke check network hardware images.

- Drove LAMP and Ajax coding with custom third-party integrations.
- Performed SunOS server upkeep and custom test script support.
- Served as Unix system admin and ownership of whole testing engine and supporting technologies.
- Built and configured multiple device test harnesses and result gathering interfaces.

Education

- Completed Coursework, Computer Sci / Elect Eng, University of Delaware, Newark, DE
- Computer Engineering, Graceland College, Lamoni, IA

Professional Development

- Acquia Certified Back End Specialist - Drupal 11
- Drupal Certified Developer 2015
- Professional industry Trainings: Troubleshooting Techniques, Docker Application Image Design, TDD, DDD, Website Accessibility, USWDS, UX