

Andrew Cox

Senior Drupal Back-End Developer | Technical Lead | Staff Engineer

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Objective

A challenging and engaging development leadership role where I can grow along with the organization.

Experience

Back-end Development Lead

April 2022 – Present

Interpersonal Frequency | Remote

- Technical lead on complex state and local government web platforms, developing both monolithic Drupal and decoupled Drupal + Next.js applications using TypeScript and Tailwind CSS.
- Create custom modules specifically for content and media asset migrations using AI-based API tools and Migrate API. Presented a custom content migration crawler module at Drupal GovCon 2023.
- Architect a custom module providing configurable OpenAI prompts to improve web copy editing workflows.
- Implement custom API integrations as needed (examples: ArcGIS, Eventbrite, Salesforce), single sign on (examples: Microsoft Entra ID, Cisco Duo), advanced site search with Elasticsearch and Solr.
- Lead regular code reviews and collaborate closely with designers, project managers, and client stakeholders to scope and deliver enhancements in Agile sprints.

Web Development Manager

March 2017 – April 2022

ICF | Remote

- Led development of web projects serving federal clients using Drupal. Managed a team of developers, regular 1:1 check-ins, annual performance reviews.
- Took ownership of existing web projects internally and from other vendors; led code reviews, 508 accessibility tests, and Drupal migrations. Completed FedRAMP audit documentation and OWASP ZAP security scans.
- Migrated websites to new hosting platforms, including AWS and Acquia Cloud hosting. Set up continuous integration using Travis CI or Acquia Pipelines for Acquia projects, AWS CodePipeline for AWS projects.
- Presented a custom content manager workflow at Drupal GovCon 2019, showcasing a custom module developed for the HHS Office of Population Affairs that worked with the Workbench Moderation module.

Senior Web Developer

May 2014 – March 2017

Pavone Marketing Group | Harrisburg, PA

- Developed websites using Drupal, WordPress, and .NET for a diverse portfolio of local clients (including PA state government) and national brands (including Hershey). Led the redesign and Drupal migration of www.papowerswitch.com that won awards and garnered positive local media coverage.
- Developed a Facebook app powered by Drupal at one point running three highly promoted national advertising campaigns simultaneously for Starkist, Lucky Leaf, and Turkey Hill Dairy.

- Moved agency away from hosting on a self-managed webserver to a Pantheon agency account for all WordPress and Drupal websites, introducing code versioning and continuous integration for websites.
- Gained experience with UI/UX and developing sitemaps for website redesigns using actual website usage data paired with client website goals for different audiences.

Lead Web Developer

April 2012 – May 2014

Pennsylvania State University | University Park, PA

- Led in-house development of several Drupal and WordPress websites for Penn State Outreach Marketing, the primary website worldcampus.psu.edu had around 500,000 monthly visitors.
- Implemented better user event and form submission tracking; implemented multivariate testing.
- Technical lead both for the Drupal 7 migration and later responsive redesign of Penn State World Campus.
- Maintained a multisite WordPress instance hosting over 50 conference and special program websites.

Senior Web Designer

July 2010 – April 2012

Brodart Company | McElhattan, PA

- Developed a B2B e-commerce website for a company serving library systems written in C# .NET.
- Managed all online marketing campaigns: paid search marketing, organic search optimization, affiliate marketing, marketing emails, and social media.
- Improved website usability based on multivariate testing. Implemented predictive suggestions for on-site search, and automated a nightly product feed to send current product data to shopping search services.
- Developed a custom Facebook contest app that generated thousands of new sales leads. Increased email marketing automation targeting shopping cart abandonment and inactive customers.

Online Director

December 2008 – July 2010

Centre Daily Times (McClatchy Company) | State College, PA

- Worked with advertising and newsroom to redesign the website emphasizing streamlined navigation and improved usability. Introduced the newspaper to Facebook and Twitter.
- Managed all digital strategy and development for the newspaper's CMS-driven website.
- Improved headline and navigation on website leading to increased visitors by over 30% year-over-year.
- Created classifieds ad aggregation module for ads that was adopted by larger McClatchy outlets.

Web Developer

September 2003 – December 2008

NIS Group | State College, PA

- Designed and developed custom websites for small businesses and local organizations.
- Built a Drupal-based community news and reviews platform, leading to recruitment by Centre Daily Times.

Education

The Pennsylvania State University

August 2001 – May 2005

B.S., Information Sciences and Technology