

MICHAEL A. MARTIN

SENIOR WEB PLATFORM ENGINEER | TECHNICAL LEAD | APPLICATION ARCHITECTURE

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PROFESSIONAL SUMMARY

Senior web platform engineer and technical lead with 17+ years of experience architecting, modernizing, and operating enterprise applications across applied research, higher education, nonprofit, and commercial environments. Served as one of two primary engineers responsible for a continuously growing portfolio of 30+ simultaneous public and internal applications, including an enterprise intranet, secure and classified workflow systems, event registration and payments, research-program sites, and institutional web properties. Combines hands-on Drupal and PHP/Symfony engineering with application architecture, delivery automation, accessibility, technical leadership, and security-conscious stakeholder discovery.

TECHNICAL EXPERTISE

Platforms & Architecture:

Drupal 10/11, PHP, Symfony, application architecture, platform ownership, legacy modernization, REST APIs, JSON:API, MySQL, MongoDB, custom modules and themes

Frontend & Integration:

JavaScript, TypeScript, Node.js, React, Vue, Twig, HTML5, CSS/SCSS, Shopify Liquid and metaobjects, payment integrations, authentication and role-based access

Delivery & Operations:

Docker, Linux/Unix, Bash, Python, Git, Composer, CI/CD, Deployer, Jenkins, Plesk, monitoring, backups, environment management, Cypress, Playwright, Behat

Accessibility & Leadership:

WCAG 2.x, Section 508, Axe, WAVE, Lighthouse, NVDA, keyboard testing, technical discovery, architecture planning, code review, mentoring, Jira, Confluence, Agile delivery

PROFESSIONAL EXPERIENCE

INDEPENDENT WEB PLATFORM ENGINEER & BUSINESS OWNER 2025 - Present

MikeMDesigns / Tru Nobility | Remote

- Own and operate Tru Nobility, managing Shopify platform development, theme customization, structured product content, ecommerce operations, and an AI-assisted content workflow supported by APIs and automation.
- Provide pro bono platform ownership for DHBDC.org, a 501(c)(3) nonprofit, maintaining its custom Drupal platform, registration and player-management workflows, communications functionality, releases, and ongoing support.
- Provide pro bono platform ownership for ClassroomConnections.org, a 501(c)(3) nonprofit, maintaining its custom Drupal platform, theming, functionality, releases, and ongoing support.

SENIOR APPLICATION DEVELOPER 2017 - 2025

Georgia Tech Research Institute (GTRI) | Technical Lead & Platform Owner | Atlanta, GA

- Served as one of two primary engineers owning a continuously growing portfolio of 30+ simultaneous public and internal applications, including the institute-wide intranet, primary public site, laboratory and research-program properties, secure contract workflows, event systems, payment-enabled applications, and legacy platforms.
- Co-owned the enterprise intranet used across GTRI for onboarding, laboratory information, institutional resources, and access to dozens of integrated applications; shared responsibility for architecture, releases, availability, upgrades, incident response, and lifecycle planning.
- Architected and delivered a custom Drupal 9 event platform replacing spreadsheet-based processes for security-sensitive events involving internal and external attendees, employee exemptions, third-party payments, visitor communications, and access-controlled activities. Integrated Georgia Tech CAS authentication and TouchNet payments, launched on schedule, and established the platform as the institute-wide event process.
- Selected an internally hosted custom architecture over commercial event platforms and existing reservation software to retain control of sensitive data and specialized workflows; phased space-reservation integration to protect the launch schedule, then led favorable post-launch user and administrator feedback sessions.
- Selected technology stacks, frameworks, hosting approaches, and integration patterns for major applications and produced architecture diagrams, data models, implementation roadmaps, estimates, and scoped technical plans for stakeholders and delivery teams.

- Architected and developed a secure workflow application replacing email-and-spreadsheet processes for major IDIQ military research contract submissions; the successful launch led to four additional applications based on the same workflow model.
- Led the migration of 20+ poorly maintained Drupal 6 properties to Drupal 9 within one year, directing architecture, migration strategy, Jira work assignment, theme remediation, institutional brand alignment, accessibility validation, testing, and production releases.
- Contributed reusable deployment and automated-testing tooling to institute application-development standards, including Deployer support for shared hosting, Behat and Cypress packages, and Plesk automation for synchronizing hosted Drupal applications with local development environments; presented the tooling to approximately 30 developers and technical leads through web governance.
- Provided senior technical leadership across cross-functional teams of developers, contractors, administrators, content specialists, researchers, and institutional stakeholders; trained a newly hired junior developer, assigned work, reviewed contributed code, established standards, and guided technical decisions alongside the application-development lead.
- Embedded WCAG 2.x and Section 508 requirements across the portfolio through automated and manual testing, screen-reader and keyboard validation, direct remediation, developer and editor training, and pre-release review in partnership with Georgia Tech accessibility specialists.
- Implemented institutional CAS authentication and role-based access controls and delivered applications within NIST-, federal-, Department of Defense-, and Georgia Tech-aligned environments; advised researchers, directors, administrators, clients, and military stakeholders on security, accessibility, scope, architecture, and delivery trade-offs.
- Advised on technical hiring and institute-wide web-vendor selection, presented recommendations to leadership and client groups, and helped evaluate staffing, maintainability, security, accessibility, and delivery risk.
- Twice nominated for a GTRI Institute Performance Award for the enterprise event platform and secure contract-workflow application.

SENIOR WEB DEVELOPER 2015 - 2017

Georgia Institute of Technology Professional Education | Atlanta, GA

- Owned development and maintenance of the primary Professional Education website and 10+ Drupal and PHP properties supporting a revenue-generating continuing-education organization.
- Led a redesign of the course catalog and translated marketing, leadership, and central IT requirements into scoped features, technical documentation, content initiatives, and production releases.
- Improved collaboration between marketing and infrastructure teams by standardizing ticket intake, requirements, scope, and development workflow practices.
- Integrated accessibility, UX, SEO, analytics, content management, brand standards, and release considerations into ongoing web-platform delivery; used Linux/Unix, Puppet, and Jenkins environments to troubleshoot application and infrastructure issues.

DRUPAL DEVELOPER & DIGITAL MARKETING MANAGER - PART TIME 2012 - 2025

Blue Ridge Vision | Boone, NC

- Designed, developed, and maintained a custom Drupal platform, including modules for personnel profiles, featured-customer content, appointment requests, and third-party review integrations; partnered directly with business owners on customer experience and digital strategy.
- Produced and promoted specialized educational content that generated a 400x traffic increase over the site's prior level through coordinated Reddit and social-media distribution, while managing analytics, campaigns, vendor coordination, and visual assets.

FREELANCE GRAPHIC & WEB DESIGNER 2007-2012

Independent | Remote

- Delivered websites, branding, logos, merchandise, and advertising for small-business clients, managing projects from discovery and concept development through design, development, and launch.

PROFESSIONAL DEVELOPMENT & COMMUNITY

- Attended five DrupalCon conferences and completed professional development in Drupal migration strategy, PHP and Symfony module architecture, CI/CD and deployment automation, component-based frontend development, advanced web accessibility, end-to-end testing, AI-assisted workflows, technical leadership, and management.
- Presented application-development tools, deployment practices, and technical standards to approximately 30 developers and technical leads through Georgia Tech's institute-wide web-governance committee.
- Contributed improvements to Drupal modules and developed a custom module submitted to the Drupal community.

EDUCATION

APPALACHIAN STATE UNIVERSITY | Bachelor of Science, Music Industry Studies; Minor in Business | 2011