

# TOR N. JOHNSON

E-MAIL: TNJ@AEROARTINC.



## WORK EXPERIENCE

### DIRECTOR OF SOLUTION ARCHITECTURE

Karsun LLC Apr 2021 - Present Washington, DC

- Designed enterprise cloud-based AWS solutions for federal clients (GSA)
- Provided oversight to both technical and UI designs for 10 agile design/development teams
- Built agile development teams and standardized hiring questions for team hiring process
- Managed the creation and implementation of enterprise and federal system security
- Provided leadership and guidance to teams of lead developers and designers

### DIRECTOR OF PRODUCT DEVELOPMENT

Leap LLC Mar 2019 - Feb 2021 Washington, DC

- Managed the technology and product department including Node/React Developers, DevOps, iOS, and User Experience
- Designed new product features and oversaw UX testing to refine features
- Recruited and hired Developers, UX-designers, and DevOps growing the department 300%
- Designed and managed the deployment of content management infrastructure to support customer relations
- Optimized and refined the performance of MongoDB
- Managed the AWS-based infrastructure including the product's architecture, cloud-based VPN, and Active Directory
- Developed and deployed DevOps pipelines for NodeJS, React, and WordPress products
- Managed the development of Node/React, Salesforce, iOS, and WordPress projects
- Managed the outfitting of new Leap office locations including network infrastructure
- Upgraded the network and computer fleet with enterprise management techniques including deployment of Active Directory and device MDM's
- Migrated the purchase and provisioning of software to manage centrally across the enterprise
- Reviewed and upgraded security across the product and network
- Installed and configured enterprise firewalls and VPNs
- Created budgets and forecasts of resources needed and operational costs including models to predict system failure rates and associated costs
- Created training classes for internal staff on topics including security best practices, email server management, web development, and database management

### MANAGING PARTNER

Daikoku Design LLC Oct 2013 - Present Washington, DC

- Developed enterprise WordPress plug-ins for multi-server enterprise deployment using PHP
- Developed WordPress image manipulation plug-in that is able to utilize either ImageMagick or GD (automatic depending on server configuration)
- Developed Drupal 7 websites
- Designed and built a heavily secured 508/ADA-WCAG compliant WordPress content system for a marketing department deployed on a load-balanced private cloud
- Identify which CVE entries apply to the specific site configurations of WordPress (and then ameliorate)



## COMPETENCIES & EXPERIENCES

- Managing cross-skill employees and leading cross-team collaboration
- Development and architecture of web-based applications
- AWS and cloud server management/provisioning
- Solid UI/UX background with testing experience
- Strong documentation skills
- Creating marketing plans and campaigns
- MySQL database design
- Familiarity with 508, TOATG, ADA WCAG AA, and similar web access-ability guidelines

## TECHNOLOGY & SOFTWARE

Outside of work my interests include equestrian sports, old book collecting, photography, collecting Japanese woodblocks, and collecting original animation cells.

## WORK EXPERIENCE CONTINUED

- Developed HTML/CSS/JS landing pages and A/B-N tests
- Provided technical consulting services based around content management and server engineering
- Managed a team of graphic designers and developers
- Managed the development of a new LAMP-based social media platform
- Supervised and developed a PHP-based image processing and manipulation web service based in Amazon Web Services (EC2 w/auto-scaling & Varnish)
- Provided project management and requirements writing for the development of various social media and enterprise products

### DEPUTY DIRECTOR, OPERATIONS AND MANAGEMENT

JBS International    January 2017 - November 2018    Bethesda, MD

- Managed DevOps engineers to implement Amazon Web Services based websites for US Government clients including Drupal, Moodle, WordPress, phpList, and ELK with a focus on NIH and SAMHSA.
- Managed the implementation of Puppet with a focus on security configuration and system updates
- Managed the DevOps workflow and architecture including guiding and developing deployment scripts for the Jenkins CI systems with code stored in BitBucket
- Managed designers in the creation of wireframes with functional requirements included
- Architected hosting stacks on AWS using CloudFront (with WAF), ELB, EC2, RDS, EFS, S3, and VPC products
- Defined and created standardized EC2 LAMP stack configurations to deploy across all environments using Amazon Linux and wrote BASH provisioning scripts
- Guided the securing of the systems to ensure compliance with federal standard NIST 800-53
- Ameliorate all issues identified at both server and application level by Nessus and AppScan
- Materially improved uptime through selectively trimming technology investments and components
- Directed development and update projects that implemented JATS XML to web publishing pipelines including writing a JATS XML to HTML conversion engine in PHP using regular expressions
- Implemented sites using flat HTML, Drupal 7, Drupal 8, WordPress, phpList, and Moodle
- Implemented new requirements gathering and analysis processes to improve QA and client outcomes



## WORK EXPERIENCE CONTINUED

- Performed UI/UX analysis and testing for multiple projects and agencies including user interviews, first-click testing, A/B-N testing, and card-sorts
- Optimized search results from Elasticsearch engine with quantitative improvement measurement (USDA)
- Created and implemented new QA processes, both automated (BASH/PHP scripting in particular) and manual
- Implemented Google Tag Manager across all properties and ensured that conversion events were recorded
- Created and performed load tests based on previous analytics to project future site load factors and plan server capacity accordingly
- Managed analysts and wrote analyses of website usage statistics using Google Analytics to gain insight and understanding on how users consume content and inform customers on their site traffic and usage
- Designed project and product resource and pricing financial models
- Identified and implemented department-wide password management solutions

### INSTRUCTOR

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General Assembly      October 2015 - Present      Washington, DC

- Instructor for Front End Web Development (HTML/CSS/JS) & Digital Marketing courses
- Guest lecturer for Web Developer Intensive and UI/UX courses
- Subject matter expert for the upcoming Cyber Security course
- Created exercises for students to learn key security concepts using NodeJS, BASH, and SQL including environment provisioning scripts in BASH. Specific topics include SQL injection and log file analysis.
- Developed new HTML/CSS/JS curricula including exercises to accurately simulate real-world development problems
- Integrated accessibility and 508-compliance into materials

### CONTRACTOR

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Apex Systems / TCG      May 2016 - January 2017      Washington, DC

- Identified and corrected accessibility (section 508) issues in web applications, PDF, and Excel documents
- Development on an AngularJS web application and PostGreSQL framework to gather financial data and documents from political nominees
- Implemented server-level performance monitoring and identified bottlenecks based on gathered analytics
- DBA for PostGreSQL including optimization of stored procedures (many had a 3-fold performance improvement)

### ASSOCIATE, UX ANALYST

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Booz Allen Hamilton      Oct 2015 - Apr 2016      Herndon, VA

- Upgraded and re-developed the JS-based CitySDK API library
- Created an interactive documentation site for CitySDK with configurable code examples and dynamically generating code for end-users
- Performed UI/UX analysis on the CitySDK website and implemented information architecture improvements
- Served as the technical representative at hackathons for CitySDK

### SR. WEB DEVELOPER

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Reingold      Dec 2014 - Oct 2015      Washington, DC

- Re-architected cloud hosting platform, replaced record keeping tools, security rules, and update strategies including creation of multiple private clouds



## WORK EXPERIENCE CONTINUED

- Designed and provisioned server platforms using RHEL, CentOS, and Ubuntu Linux for various clients
- Designed and deployed a platform-wide versioning backup system for all sites & server configuration (Ubuntu Linux, Red Hat Enterprise Linux, Windows 2012)
- Created several new open-source WordPress plug-ins including a customizable search & related content system using Sphinx Search
- Implemented enterprise WordPress & Drupal sites including fully custom themes (HTML, CSS, JavaScript, PHP), 508 compliance, hosting, training, and documentation for both commercial and federal clients
- Guided designers, developers, UX, and analytics team members to implement integrated solutions
- Created heavily customized analytics and tag solutions for single page web applications
- Provided project management and requirements writing for enterprise web properties
- Created and ran training seminars for clients on HTML/CSS and content management system operation
- Created and instructed seminars to internal students on a variety of topics including MySQL, Site Search, Apache, Linux Server Administration, Jira
- Replaced project management tools and helpdesk with Jira and migrated legacy content from Asana
- Identified and implemented department-wide password management solutions

### DIRECTOR, DIGITAL INTEGRATION & DESIGN

NCTA

Sept 2012 - Sept 2013

Washington, DC

- Managed a team of graphic designers and content managers
- Maintained and developed WordPress and Drupal sites
- Maintained a farm of RHEL servers including the development of bash-based auto-provisioning scripts
- Developed an interactive kiosk for annual tradeshow with JavaScript
- Managed the design, development, and deployment of an interactive wall installation

### SR. MANAGER: MARKETING TECHNOLOGY TEAM

Simplexity LLC

Jan 2008 - Sept 2012

Reston, VA

- Managed a team of designers, developers, and server engineers
- Interviewed, hired, and managed software developers and interns
- Architected and developed a custom deployment engine for a multi-server/multi-site CMS that was directly integrated into the CMS itself
- Architected and implemented various LAMP hosting stacks including RHEL, Ubuntu, and FreeBSD (both hands-on and management)
- Managed the development of A/B-N tests using Javascript, a custom PHP CMS and Adobe Test-and-Target
- Implemented new product and site search tool with Sphinx to replace crawler-based site search
- Designed and implemented a PHP and ImageMagick CMS to managed 10,000+ product images and automate the deployment and image compositing process
- Created custom marketing email generator and PHP-based CMS that implemented a new workflow between designers, developers, and marketers that reduced production time by half

# TOR N. JOHNSON

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- Designed workflows and content management systems to improve collaboration between sales, marketing, and technology teams
- Developed custom tag and analytics event-tracking management tools
- Conducted training classes on web development and marketing
- Architected a high-performance, scalable, PHP-based CMS

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## SR. INTERACTIVE DESIGNER

InPhonic Inc. Feb 2006 – Oct 2007 Washington, DC

- Designed production systems and HTML/CSS frameworks to rapidly create cross-browser/platform landing pages (HTML/CSS)
- Coordinated efforts between marketing, IT, and creative teams to ensure that business needs were met by products produced
- Produced web advertisements utilizing Macromedia Flash (both were heavily ActionScript 2 and 3 based)
- Created self-configuring flash components utilizing ActionScript 3 and XML
- Created product photography system and workflow

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## DIRECTOR OF PUBLICATIONS

AeroArt International Inc. Jan 1995 - Present Great Falls, Virginia

- Transitioned company site ([www.aeroartinc.com](http://www.aeroartinc.com)) to a custom Magento eCommerce system (including skin in PHP & XML)
- Managed the production of multiple illustrated books, including art direction, team supervision, printing production, and photography
- Designed full-color magazine advertisements
- Designed a brand-specific repeatable product photography process
- Maintained all computing infrastructure including a multi-office network, VPN, desktops, and file servers

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## CONSULTANT

Fuseas Ltd. May 2005 - Sept 2005 Tokyo, Japan

- Prepared marketing materials including company mission statement
- Developed and designed company website
- Created interactive maps and infographics using Macromedia Flash
- Designed internship program

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## SUMMER INTERN

Lehman Brothers Summers 2001 and 2002 Tokyo, Japan

## EDUCATION

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### BACHELOR OF ARTS, INTEGRATIVE STUDIES: GLOBAL BUSINESS & VISUAL TECH.

George Mason University 1999 - 2003 Fairfax, Virginia