**TIM ANDREWS**

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**Full Stack Web Developer**

**Results-driven and highly analytical IT professional with a proven track record of designing and executing new initiatives along with an excellent history of leading cross-functional teams. Expert at program architecture, systems management, and web development to lead execution and deployment of customized IT and Web solutions. IT Director/Systems Administrator that has expanded skills and knowledge of a web developer.**

**Areas of Expertise**

Web, Mobile, and Software Development - Technology Infrastructure – Project Management – Systems Administration – Budgeting & Expenditures – Startup Operations – Customer and Vendor Relations – Of ice Relocation and Buildout

**PROFESSIONAL EXPERIENCE**

**Artemis Consulting, Inc.** – McLean, VA 2017 – 2020\_

*Government Contractor working closely with The Library of Congress* \_

Developer / Lead Developer – Constitution Annotated Modernization (CONAN) DEC 2018 - JANUARY 2020 ([consittution.congress.gov](http://constitution.congress.gov/))

Part of a development team to modernize the www.constitution.congress.gov website. Primary responsibilities included: design & implementation of ETL system to convert legacy XML files into a fully searchable Apache Solr Data Repository, design & implementation of Content Management / Admin Tools for non-technical Library of Congress Staff, and contribution to web front end. Also assumed the role of lead developer toward the end of the project.

DEVELOPER - BY THE PEOPLE (CROWDSOURCING) JUNE 2018 - NOVEMBER 2018

([crowd.loc.gov](https://crowd.loc.gov/))

Part of a development team responsible for the rapid prototyping of the Libraries Crowdsourcing Web Page (crowd.loc.gov). This site was developed over a short period (6 months) and presented to the Client as a fully functional MVP website. My responsibilities included: Project Management and web development.

DEVELOPER - REPO (INTERNAL LIBRARY DIGITAL REPOSITORY INVENTORY) JUNE 2018 - NOVEMBER 2018

Repo is the Library of Congress’s internal Data Repository of all of the Library’s Digital Assets. Was responsible for migrating several pages and functions of the older system to Python/Django

DEVELOPER - NATIONAL JUKEBOX MAY 2017 - MAY 2018

([loc.gov/collections/national-jukebox](https://www.loc.gov/collections/national-jukebox))

The main website of the Library of Congress (www.loc.gov) hosts many digital collections. The National Jukebox project was initiated to add a collection of early (1900 - 1920) recordings to the library’s main site. This collection has some unique requirements that needed to be developed for the site. I was responsible for building an ETL system to import digital recordings and recording metadata. I was also responsible for configuring the new collection as part of the loc.gov site and for developing several new features for the Jukebox site that could also be used for other collections on the loc.gov site.

**StaySmarter, Inc.** – Arlington, VA 2017 – 2020\_

*Innovative hotel insiders and technologists Innovating how rooms are found and sold online. (Start-Up / 10 employees)*

Principal and Chief Information Officer

Responsible for building all IT Systems at a new fast-paced IT Startup. Built IT infrastructure and development functions companywide primarily using Software as a Service (SaaS) Tools. As the company matured and the IT Systems became operational there was a need to focus on developing the company’s suite of Web & Mobile Applications. I was able to use my background in Web Development to transition onto the software development team. I served as Project Manager and Lead Developer on several projects while also contributing on the development teams on other projects. I maintained my role as IT Administrator while adding roles as Project Manager and Full Stack Web Developer.

* Earned recognition for successfully designing, restructuring, implementing, and maintaining all IT infrastructures and systems for a fast-moving tech startup, which are run using SaaS (Software as a Service) tools such as Office 365, Basecamp, and Trello.
* Assumed full responsibility in identifying and choosing strategic office space for the startup as well as maintaining a flexible office environment to allow modification to space without causing excessive disruptions to productivity.
* Leveraged industry expertise in creating a client-facing help desk system for the three products, including StayAtHand iOS, StayFaster web, and StayDreamer web applications, utilizing ZenDesk, 8x8 (VoIP), Twilio and third-party answering services.

Web/Mobile Development Projects:

Project Manager and Lead Developer for StayDreamer.com

* Spearheaded all facets of the website development, which aids aspirational travelers to browse, search, discover, and share hotels.
* Made major contribution from the original inspiration through the final execution of StayDreamer; created using Python, HTML, CSS, Bootstrap, JavaScript, jQuery, MySQL, and AWS servers.

Developer for StayFaster.com

* Collaborated with a team of developers in developing and maintaining StayFaster.com; built using Python, HTML, CSS, BootStrap, Responsive Web Design, JavaScript, jQuery, MySQL, and AWS servers.

Developer for StayAtHand iOS App

* Maintained active involvement in the creation and maintenance of StayAtHand, an iOS application for hotel booking.

Project Manager, Systems Architect, and Lead Developer for internal Web Site (RSDB)

* Administered RSDB, the company’s internal web application providing a tool to the Customer Service Team to efficiently troubleshoot issues; the tool is also used internally for reporting activity.
* Expertly identified the requirements and design of the tool, which was constructed using ASP Classic, HTML, CSS, JavaScript, jQuery, MySQL, and AWS servers.

Marketing General, Inc. – Alexandria, VA 1993 – 2013\_

*Leading provider of membership-marketing solutions, specializing in data analysis of member behavior. (80 employees)\_*

Director of Technology & Development [2002-2013]

Orchestrated IT infrastructure and development functions companywide, ensuring comprehensive technologies align with capacity growth for a mid-size marketing firm. Collaborated with Senior Executives to determine technology needs across multiple business segments. Drafted annual budgets and monitored resource allocation for all IT activities and led budget forecasting for future needs. Managed daily operations for help desk and support staff, overseeing all company IT support and Troubleshooting. Performed systems administration for all back-end platforms, identifying needs and gathering necessary requirements to drive equipment procurement and adoption of cutting-edge resources. Successfully coordinated two office build-outs and moves, overseeing the transition of networking equipment, server-room security, system installation, contractor and vendor engagements, workflow engineering, as well as phone and data services. Maintained optimal workflow to ensure zero operational downtime through the designation of temporary workspaces.

* Championed design of new server rooms, including network patch panels, rack and cabinet installations, and initiation of security and access policies.
* Directed evaluation, selection, and procurement of new servers leading installation of MS Clustering Service and MS Hyper-V to create virtual server farm supporting files servers, print servers, database servers, and corresponding software.
* Implemented modernized help-desk software, performing an extensive evaluation of market tools to identify optimal technology for internal adoption. Spearheaded training initiatives to promote unilateral product knowledge and best practices across network of end users.
* Took the initiative to propose, build, and develop an internal Web Site (MGICentral). MGICentral was used to facilitate workflow for our direct marketing projects. It was used to manage activities such as project initiation, assignment of project numbers, managing project specifications, and tracking results. MGICentral was built using tools such as HTML, javaScript, CSS, ASP Classic, MS SQL, and Windows IIS servers.

Director of Technology & Development, Interlogic [2000 to 2002]

Promoted to build IT environment for startup division Interlogic, with operations focused on providing a dynamic set of technologies, including database analysis and application development, to the client base. Designed and developed web-based early-association software as Senior Architect and Programmer. Managed daily operations for a team of 10 resources. Interfaced with expanding client network to promote a portfolio of specialized product and service offerings.

* Pioneered design and implementation of online membership application and conference registration service, managing development of web servers, database structure, credit card processing, and template design for application and registration websites. Authored and initiated end-user and administration pages for 40+ associations and conferences.
* Engaged as Senior Architect and Technical Lead during the creation and launch of an association-management application, ADAM. Directed design, programming, and implementation of an online interface and supporting database. Ensured end-user satisfaction through the deployment of detailed customer support and training programs.

Information Technology & Data Services Manager [1997 to 2000]

Established Data Services department to transition all outsourced and costly data-processing services to internal environment. Designed key roadmaps for centralizing data-management tools and systems companywide. Led tactical operations for all project resources, as well as regular information-sharing meetings, troubleshooting, and technical support. Interfaced with client base to promote proprietary products and services needed to drive overall engagement and ensure revenue growth within the department.

* Successfully internalized all third-party data-processing services within 18 months of operations.
* Built comprehensive IT infrastructure to support the generation of 500 annual mailings ranging from 5K to 5M+ pieces representing $1M+ in annual revenue.

*Additional experience with Marketing General, Inc. as Mail Services Unit Manager and Mail Services Unit Project Manager.*

**TECHNOLOGY PORTFOLIO**

DEVELOPMENT TOOLS: Python 2, Python 3, Django, Flask, Git, Bootstrap, Jenkins, Apache Solr, Docker, Docker-compose, JavaScript, jQuery, HTML, CSS, Git, GitHub, AWS, Google Analytics, MS Visual Studio, JetBrains PyCharm, Xcode, Apache Solr, MySQL, PostgreSQL, MS SQL Server, Toad for MySQL, TestFlight, Putty, Twilio API, WordPress, ASP Classic

SOFTWARE AS A SERVICE: Jira, Confluence, Trello, Basecamp, Github, GitLab, Office 365 (Enterprise), Office 365 (Home),, ZenDesk, Amazon Web Services (AWS), TestFlight

NETWORKING EQUIPMENT: hubs, switches, routers, Wi-Fi

FILE & PRINT SERVERS: Novel & Windows NT, 2000, 2003, 2008, 2008 RS

SOFTWARE: MS Office, Office 97, Office 2000, Office XP, Office 2003, Office 2007, Office 2010, Office 98 for Mac, Office 2004 for Mac, Office 2008 for Mac, Office 2011 for Mac, Word Perfect, Lotus 123

SERVER ROOM MAINTENANCE: racks, patch panels, rack mounted servers, UPS, AC, and KVM

OPERATING SYSTEMS: DOS 3.1 3.3,5.0, 5.1, 6.0, Windows 3.0, 3.11 for workgroups, 95, NT 3.51, NT 4.0, 98, Millennium, 2000, XP, Vista, 7, 8, 8.1, 10, and 11 Windows Server NT 3.5, NT 4.0, 2000, 2003, 2008, 2008 R2, 2012, 2012 R2, Mac OSX, Linux, iOS, Android

**CERTIFICATIONS AND INDEPENDENT COURSEWORK**

CERTIFICATIONS: ITIL Foundation

COURSEWORK: HTML5: Structure, Syntax, and Semantics (www.lynda.com), CSS: Page Layouts (www.lynda.com), CSS: Core Concepts (www.lynda.com), CSS: Fundamentals (www.lynda.com), Photoshop CC for Web Design (www.lynda.com), Up and Running with Bootstrap 3 (www.lynda.com), jQuery Essential Training (www.lynda.com), GitHub for Web Designers (www.lynda.com), The Complete iOS8 and Swift Course (www.udemy.com), Introduction to the Flask MicroFramework (www.pluralsight.com), Django Fundamentals (www.pluralsight.com), The Python Developer’s Toolkit ([www.pluralsight.com](http://www.pluralsight.com))

**EDUCATION**

BACHELOR OF SCIENCE IN PSYCHOLOGY – VIRGINIA TECH UNIVERSITY – Blacksburg, VA