

Professional Experience

11/2015-present: *Information Technology Analyst 3 at New Jersey Judiciary – Trenton, NJ*

- I serve as web-team project leader and a lead developer. Responsibilities and duties include, but are not limited to:
 - Planning and architecture for new services or solutions when requests are presented to the team.
 - Communication with various team leadership throughout the Judiciary to understand and sign off on to their needs.
- Troubleshoot and resolve complex issues within my team and other teams within the Judiciary.
- In-charge of managing updates to projects owned by me. Maintain accessibility standards on websites as required by the government sector rules.
- Maintain and enforce project playbook on team roles and web design-implementation how-tos.

12/2014-11/2015: *Communication Technician at Ocean County Government – Toms River, NJ*

- Maintain countywide radio network for Ocean County public service departments. Had to respond to outages/off-hour downtime when necessary to support Emergency Services. Applied various Windows and Motorola patches monthly.
- Efficiently program different configuration profiles into various Motorola radio models for multiple county divisions.

7/2012-3/2015: *Tier one Programmer/Support at Offerit – Morganville, NJ*

- Provide remote client software via email, phone, or chat messaging and access to servers through SSH.
- Client software installation. This would require that I develop and utilize shell scripting to automate processes to prepare environment. Data analysis and sanitization for bulk imports.
- Develop PHP software features/third party integrations requested by clients and address any code-based bugs.
- Would often work with third party companies, such as the hosting provider, to resolve server-side issue.
- Would set up server backups for clients via custom shell scripts and utilizing server's cron.
- Would assist clients in tracking their traffic to certain servers/sites/pages upon request.

7/2005-7/2011: *Electronics Technician Second Class at US Navy*

- Supervisor for Combat Electronics work center, managing personnel while troubleshooting and performing maintenance and repairs to vital electronics.
- NMCI Network Coordinator - managed computer network accounts for all personnel through Active Directory.
- Electronic Support Supervisor - involved knowledgeable management of division during normal operations and provide fast reaction to casualty control procedures during emergency conditions.
- Administered the ship's network/computer's operating systems through various software/security patches.

Notable Projects

- **NJCourts.gov Website Redesign**- The redesign required a new look, restructured data/content, and implementation of newer technologies. My role in this project was project lead as well as lead developer. As project lead, I had to review the current state of the site and its contents and formulate a plan to migrate it over into the new site. This involved data sanitizing, research into newer web technologies, educating/mentoring team members, and developing the necessary libraries/Javascript code for the website.
- **NJCourts Infonet Website Redesign**- After completing the NJCourts.gov redesign I took the skills and lessons learned and began a redesign on the internal (Infonet) website. My role in this project was the project lead as well as a lead developer. As project lead, I had to review the current state of the site and its contents and formulate a new plan to migrate over content and reduce content duplication as resources were shared between the internal and external website. This also required researching newer technologies, educating/mentoring team members, and developing new Javascript libraries for the website.
- **NJCourts.gov Zoomtube Streams**- This project was initially required to provide live court streams to the public during the COVID-19 pandemic. My role in this project was a lead developer. We utilized technologies such as Zoom, AWS Lambda, AWS API Gateway, DynamoDB, AWS Graviton Server, AWS EC2 Instance(s) using Nginx to host a RTMP server, Node.js, Python. These helped get the streams, host them, and record data about them.
- **Smires & Associates Real Estate Website**- This project involved a complete website redesign, hosting services, and third-party integration into an MLS database. I was hired as a freelance developer to create this new site for them. I researched hosting/DNS providers, sanitized, and migrated data/files, configured server, designed, and implemented theme, integrated tools to assist with site SEO and MLS data, and ended with a knowledge transfer/education on how to manage the new site.

- **NJCourts.gov migration into Drupal-** This project required the NJCourts.gov website be built and managed completely in Drupal. My role in this project was project lead and lead developer. My responsibilities included prepping the data and content for migration, researching, and learning Drupal, configure Drupal to fit the organization needs, create, and manage development environment/workflow for continuous development, educate and mentor team, provide ongoing development support. Worked closely with Acquia for onboarding, training, implementation, content architecture to prepare our site for integration into the Acquia Cloud Platform.
- **billdaff.com Portfolio Site-** This project started out as something I did to keep track of my projects for my own purposes and to help build and maintain my resume. I had done some research and liked the idea of a headless Drupal/a decoupled CMS, so I started there. I structured the content of my resume/old portfolio in Drupal, served it via a REST export, and consumed it via a React App. See more, and other projects, at <https://billdaff.com>

Services/Solutions

- **NJ Courts Municipal Court Closings-** This solution addressed the need for a state-wide municipal court closing alert system for the 500+ municipal courts. Technologies: Bootstrap, HTML 5, Python, Sharepoint, Windows Server.
- **PDF Roster Mover-** I had created this service for other teams in the Judiciary to post updated PDFs securely to the NJ Courts website while automatically appending meta date to the PDF. Technologies: Python, Windows Server.
- **Enterprise Level Elastic Search-** This solution provided a search engine and crawler to njcourts.gov. I had installed and configured the Elastic Search initially in Docker for testing/development changes then it was deployed. Technologies: Docker, Elastic, FESS, RHEL.
- **Tax Report Statistics Generator-** This service pulled in data from remote database use that data to generate a report in PDF and XLSX then move it into place on the website for users to view or download. This service ran in a Docker container on a RHEL server. Technologies: Docker, Node.js, RHEL
- **Jury Reporting Messages-** This solution was created to allow Jury Managers statewide to update the NJCourts.gov website quickly and securely. This needed to be remote for them as well as restrict them to one area of the site. Technologies: Bootstrap, HTML5, Microsoft Access, Python, Windows Server.
- **Sitemap Generator-** I developed a solution for a NJ Courts website to generate an XML sitemap for the dynamic content on the site. This later was bundled up as a service to run daily. Technologies: Python, XML, Windows Server.
- **Court Opinion Tools-** I created a sublime plugin tool to parse out data and format it for the website to present Court Opinions. This was a tool used to speed up and automate the posting process for content updating. Technologies: JSON, Python, SCP, SFTP.
- **Court Opinion File Mover-** This service was built off the idea from the Court Opinion tools. It accomplished the same goal, except also appended meta data to PDFs. It was deployed as a service to run daily at a specific time. Technologies: HTML5, Python, Windows Server.

Qualifications and Technology Experience

- Government Top Secret/Secret security clearance.
- Proficient in PHP/Python/Perl/R/C/C#/Java/Javascript/Smarty/Twig/HTML5/XML/CSS3/SASS/JSON programming languages. Familiarity with TypeScript, AngularJS, React, SOAP, REST, ADA and WCAG Compliance.
- Proficient in data management via SQL, Microsoft Access, and NOSQL databases.
- Proficient in Linux web server management through Apache/Nginx and other Linux packages.
- Proficient in managing codebase(s) via Git, Github's project boards, and hooks to establish pipeline development.
- Experienced in Sharepoint, IBM Web Content Manager, Acquia Cloud Platform, and Drupal environments.
- Work Center Supervisor - Responsible for completing all preventative correct maintenance, as well as supervising personnel within work center.
- Proven ability to respond immediately and confidently in emergencies with in-rate Naval Training, Combat Systems Officer of the Watch, Damage Control Qualifications, and Force Protection Qualifications.

Education

United States Navy

- Electronics Technician Apprentice Technical Training. AC/DC and Digital Circuits, Technical Mathematics, Electronics Technician A School, Troubleshooting and Repair, Electronics Laboratory and Personnel Supervision.

Thomas Edison University

- Graduated December 2017 with a bachelor's degree in Information Technology.