

EXPERIENCE

Web Developer, General Dynamics Information Technology

06.2020 – current

- Developer on the NESDIS Cloud Archive Program
 - NASA CRM: Analyzed ISO 19115-2 metadata transform to Unified Metadata Model (UMM). Evaluated code base for improved translation. Presented findings to stakeholders and participated in meetings with NASA on possible translation changes.
 - One of two developers on NCAP team tasked with evaluating the use of NASA’s Cumulus. Integrated NCAP’s step functions as Cumulus Workflows and Tasks, processed dataset through Cumulus, and evaluated user interface and reporting capabilities.
 - Primary developer prototyping metric and system dashboards using Grafana, CloudWatch, and Elasticsearch’s Kibana. Responsible for pipeline creation for vAIPs (virtual archive information package) from Lambda step function -> SQS -> Elasticsearch. Met with Data Operations Branch stakeholders to gather user requirements which were implemented into generated prototypes. Presented numerous fully built dashboards for each platform.
 - Assisted developing RDF/OWL knowledge graph & ontology based on the OAIS Reference Model for Digital Preservation. RDF/OWL, Protégé, Web Protégé, python rdflib, kglabs, & Neptune.
 - Worked with AWS S3, AWS Lambdas (python), Step Functions, SQS, and Event Bridge, CloudFormation
 - Give demonstrations, when applicable, for bi-weekly sprint reviews

- Primary frontend developer for NCEI’s Collection Manager Tools including Grails based applications Metaserver, Metaview, CoMET, & Docucomp which supports NOAA/NCEI’s OneStop scientific dataset access system
 - Integrated an ISO editor into Grails view that transformed the format neutral CoMET XML to json based forms using json-editor library.
 - Well versed in ISO 19915-2 Metadata standard and NCEI’s implementations and transformations.
 - Developed numerous JavaScript end-user tools to support NCEI’s metadata requirements: Created a default value finder for ISO templates pre-filled out with dummy data (JavaScript). Guided Mode using the NCEI Rubric V2 scoring to help users create more complete collection level metadata records. Developed a Simple Viewer mode for the ISO Editor.
 - Upgraded frontends to Bootstrap 4.0 and created a consistent look and feel across applications and ensured web applications are Section 508 Compliant
 - Give demonstrations, when applicable, for monthly sprint reviews

- Engaged team member on both an Agile Kanban team as well as a SAFe team. Used Jira to manage tickets; IntelliJ and VsCode IDEs, Git Lab, CodeCommit, and Jenkins for deploys. Capable developer on either Windows or Macintosh (preferred) systems.

Grails, Groovy, JavaScript, Flask, Python, Bootstrap, AWS S3, AWS Step Functions, AWS Lambdas, AWS Ec2, Docker, CloudWatch, Event Bridge, SQS, Elasticsearch, CloudFormation, Grafana, Kibana, Docker.

IT Manager/Web Developer, ALLTEC

04.2018 – 05.2020

IT Supervisor/Software Developer, Brumit Restaurant Group

11.2009 – 03.2018

IT Manager/Web Designer, Alltec Corporation

02.2007 – 10.2009

Experience Highlights:

- Numerous full-stack development projects: web-based facility management/ticketing system, vacation request system, training repository, and a custom installation of vTiger CRM. Tech: **PHP, JavaScript, Ajax, .ASP, Windows IIS, Debian, & Centos.**
- Several WordPress and WooCommerce customizations and plugins for both desktop and web: Lighting Risk Assessment, Electrolytic Ground Conductor Calculator, Part Cost Calculators, Catering system customizations for WooCommerce, purchase order request, In/Out Board. Tech: **ReactPress, PHP, .ASP, JavaScript, and C (for windows desktop versions),**
- Worked with numerous SaaS vendors to **extract, transform, and load (ETL)** data into their services. Developed complex scripts for ETL between multiple systems and/or analyzed metrics to ensure accuracy. Ensure data transfer was performed securely. Primary languages/systems used to extract data from antiquated hardware and software systems was **Visual Basic, Microsoft SQL, and Wscript.**
- **Seasoned network & system administrator** for Windows (primary) and Linux systems (secondary): setup network zones, VLANS, firewall rules, and VPNs, configured devices, workstations, and servers, keep logs, and assign threat levels for vulnerabilities, ensure updates are applied according to PCI DSS standards, monitored log files for unusual activity and investigate to ensure systems are secure. Mentored and managed small IT team and contractors.
- **Certified PCI Internal Security Assessor for Level 2 merchant.** Assessed network and dataflow topology, computers, and merchant environment to ensure compliance to the PCI Data Security Standard. Lead security awareness training programs and gave training to audiences 100+.

EDUCATION

• **BS Information Technology**, University of Phoenix

3.91/4.0 GPA | 79/120 CH completed

• **ASS Web Technologies**, Asheville Buncombe Technical College

3.952/4.0 GPA