

#### OMNITECHNOLOGY PROFESSIONALS, INC.

- Who is Team Omni?
  - OmnitechPro is comprised of 5 individuals with IT and business knowledge.
  - Jeremy Heslop founded OmnitechPro in 2004 when he identified a need for small businesses to implement IT work, with a high level of reliability.
    - He has termed this new methodology of IT service as IT2.0.
    - Omnitechpro.com
- What does Team Omni do?
  - OmnitechPro creates not only IT solutions, but the right IT solutions for any clients specific business needs.
    - Jeremy overlooks the project management and generating new projects from existing and new clients.
    - We have an IT specialist who works directly with Delmarva Heart here in Salisbury.

#### RESPONSIBILITIES/TASKS

#### Responsibilities

- Work on assigned projects.
- Assist team members with other projects when needed.
- Provide IT support assistance.

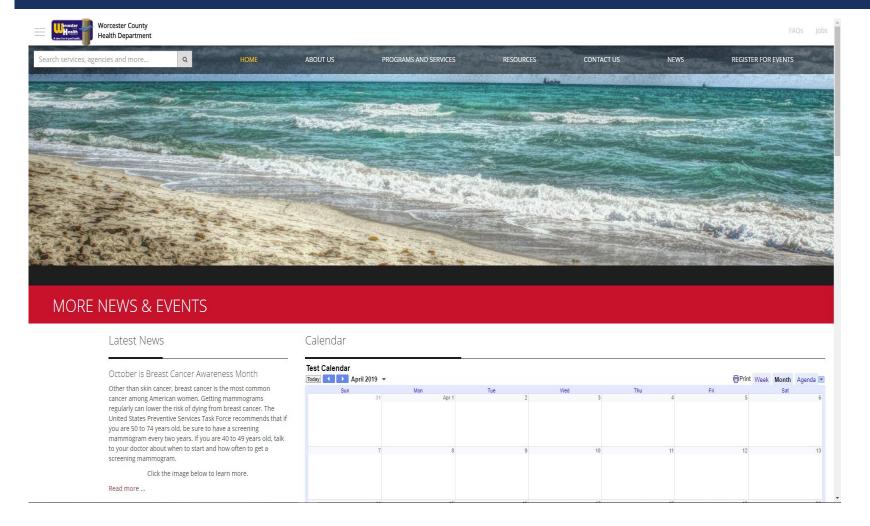
#### Tasks

- Create website for Worcester County Health Department (WCHD) that was identical to the Maryland.gov template.
- Create Drupal 8 front-end interface for data extraction algorithm.
- Update Judy Center's Microsoft Access Database.
- Assist other team members.

#### **CHALLENGES**

- Learning a wide range of languages, interfaces and software in a short amount of time.
  - Joomla, Drupal 8, PHP, HTML, CSS, Javascript, Jquery, Microsoft Access
  - Also had to learn database topics in order to complete a clients request for updated queries.
- Effectively assist team members with other projects.
  - (Built PC for laser cutting software, meeting deadlines for other members Drupal 8 sites, etc.)
- Managing work load for my own personal projects while helping other projects.

### WCHD WEBSITE



- Clients wanted matching website to Maryland.gov.
  - Reverse engineered the format and layout.
    - Accomplished this task by inspecting the Maryland.gov site and mimicking its attributes.
- Had to learn how Joomla templates worked.
- Had to learn front-end languages.
  - PHP, Javascript, Jquery, HTML, CSS.

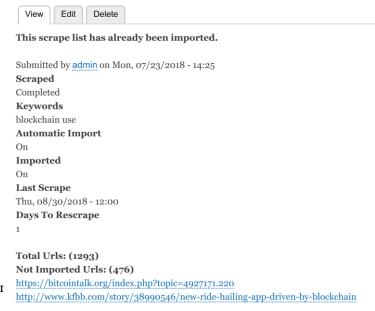
## DRUPAL 8 DATA EXTRACTION PROJECT

```
function processURL($nodeId) {
    Timer::start("processURL");
       $node = Node::load($nodeId);
       if(!$node->get('field tags')->isEmpty())
           $tags = $node->field tags;
           $tags = [];
       $nurl = $node->title->value;
       $pdfVal = FindTermID('pdf', TAG);
       $imgVal = FindTermID('image', TAG);
       if(!$node->qet('field tags')->isEmpty()){
            foreach($node->field tags as $tag){
               if($tag == $pdfVal || $tag == $imgVal){
                    |$data = "";
                   $node->body = htmlentities($data);
                   $sitetitle = "";
                   $node->field site title = $sitetitle;
```

https://hiswai.com/technology/popchain-changer-of-digital-conterdistribution-sector/

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#### **Blockchain Use Cases**



- Client wanted a front-end website to view database of URL's processed and "scrape objects" that contains a list of URLs that is relevant to that topic.
  - Scrape objects are generated by a preceding C# application that imports new scrape objects.
    - Uses ScrapeBox to generate URLs
- This project is autonomously ran every hour to process unprocessed URLs and ran by using a cron-job task.
  - Scrape objects contain the new URLs that have not been imported and are updated through the C# application.

## JUDY CENTER DATABASE

- Due to confidentiality, the database itself cannot be shown due to the personal information that is saved in this private database.
  - Holds student's information that have attended either an event or program.
- Client wanted new queries created for their existing Microsoft Access database.
  - During this project I had to introduce myself to Microsoft Access and the basic's of databases in order to build the necessary queries.
  - Most of these queries kept track of how many students were involved in multiple activities or were part of a particular activity within a certain date range.
    - All of these queries required subqueries to retrieve the required information from the database to calculate the correct query that was wanted.
- Had to fix some forms (specific to Access) that need to be changed due to new dependencies added.





## THANK YOU

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