



COSC 380 SPRING INTERNSHIP

BY: VINCENT NIGRO

OMNI TECHNOLOGY 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

Worcester County Health Department

Search services, agencies and more...

HOME ABOUT US PROGRAMS AND SERVICES RESOURCES CONTACT US NEWS REGISTER FOR EVENTS

FAQs Jobs

MORE NEWS & EVENTS

Latest News

October is Breast Cancer Awareness Month

Other than skin cancer, breast cancer is the most common cancer among American women. Getting mammograms regularly can lower the risk of dying from breast cancer. The United States Preventive Services Task Force recommends that if you are 50 to 74 years old, be sure to have a screening mammogram every two years. If you are 40 to 49 years old, talk to your doctor about when to start and how often to get a screening mammogram.

Click the image below to learn more.

[Read more ...](#)

Calendar

Test Calendar

Today April 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	Apr 1	2	3	4	5	6
7	8	9	10	11	12	13

- 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;
    else
        $tags = [];

    $nurl = $node->title->value;

    $pdfVal = FindTermID('pdf', TAG);
    $imgVal = FindTermID('image', TAG);

    if(!$node->get('field_tags')->isEmpty()){
        foreach($node->field_tags as $tag){
            if($tag == $pdfVal || $tag == $imgVal){
                $data = "";
                $node->body = htmlentities($data);
                $sitetitle = "";
                $node->field_site_title = $sitetitle;
                break;
            }
        }
    }
}
```

<https://hiswai.com/technology/popchain-changer-of-digital-content-distribution-sector/>

View Edit Delete

This URL has been processed already.

Submitted by [admin](#) on Fri, 07/20/2018 - 15:40

Site Title: POPCHAIN, Changer of Digital Content Distribution Sector – #hiswai

process: On

Tags: [website](#) [rss](#)

Scrapes

000001 [blockchain content distribution](#)

Link

<https://hiswai.com/technology/popchain-changer-of-digital-content-distribution-sector/>

Blockchain Use Cases

View Edit Delete

This scrape list has already been imported.

Submitted by [admin](#) on Mon, 07/23/2018 - 14:25

Scraped

Completed

Keywords

blockchain use

Automatic Import

On

Imported

On

Last Scrape

Thu, 08/30/2018 - 12:00

Days To Rescrape

1

Total Urls: (1293)

Not Imported Urls: (476)

<https://bitcointalk.org/index.php?topic=4927171.220>

<http://www.kfbb.com/story/38990546/new-ride-hailing-app-driven-by-blockchain>

- 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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