Jake Laurence Maguire

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Profile

An eager, hard-working third year student studying Internet Computing and Systems Administration at Aberystwyth University, on track for a first honours degree. Excellent interpersonal skills with client experience, now seeking an opportunity to work in a dynamic, exciting company.

Experience

09/06/2014- 14/08/2015

Software Engineer, *Sanders Polyfilms*, Hereford.
- Designed and implemented a bespoke planning system with a web interface to aid the organisation and completion of company orders. Modernised existing Microsoft Excel based system and created a new web application built with PHP and JQuery/Javascript with a MySQL back end. Automates previous procedures such as the completion of orders though SQL queries and Transact-SQL triggers.
- System used jQuery to help staff by automating trivial tasks such as estimating order completion time, moving rows between HTML tables (jQuery UI) and traversing the DOM to dynamically remove table rows.
- Using feature driven development alongside regular presentations with company executives and future users to produce the project they wanted.
- Provided technical support to staff members on how to use the new software through regular one on one meetings and company presentations
- Worked with hardware such as scanners that allow QR codes on products to be scanned, helping the company to keep track of orders. These scanners could then interact with the database using data scanned from QR Codes sent using POST.
- Using Microsoft Access and Visual Basic I produced forms and reports linked to the database to allow invoices and other documents to be easily created.

Education

2012-2016

Aberystwyth University, *Internet Computing and Systems Administration BSc (Expected First)*.
Modules include:
- Web Programming
- Agile Methodologies
- Client-Side Graphics Programming
- E-Commerce: Implementation, Management And Security

2012 – Present

Launceston College, *Launceston, Cornwall*.
A Levels: Photography (C), English (C), Computing (D)
GCSEs: 11 at grade A* - B (including Maths, English and Electronics)

Skills

PHP - I have extensive knowledge of PHP having built many personal applications such as E-commerce websites with shopping cart and login functionality. Using the Laravel framework I have produced a filestore system that allows users to login and upload/download files from a server.

JavaScript

- With the addition of HTML 5, I built a small side scrolling game using the canvas as a personal project. I used vanilla JavaScript to incorporate game mechanics such as sprites, character health, power ups and hit detection. It also keeps a personal high score by saving data to HTML 5 local storage.
- I created a website incorporating the Google Maps API to generate custom markers and routes using data such as coordinates and descriptions from a database. This project also used JSON to save images from an android phone to a database and then display this image onto the Map. Have also incorporated the VueJS framework into my filestore project.

jQuery - During my work at Sanders Polyfilms I took over a project and built on the existing JavaScript with jQuery to create a more responsive application. Using Chrome Developer Tools I improved upon the "callback hell" that was present in the code and created a more responsive soltuion.

SQL - Used PDO and SQL to create queries and joins. Used Microsoft SQL Server 2012 for database administration.

Linux Administration - Set up and administered my own server, installing a LAMP stack and Laravel whilst also hosting my own website.

Java - Produced a small board game as part of my course allowing the user to travel around a 2d grid, avoiding randomly spawning enemies. Experience of Swing through building an animation creator which generates frames of coloured blocks that creates a short moving picture.

Other Skills

- CSS (CSS3)
- PostgreSQL
- Adobe Photoshop
- Git
- Visual Basic (Microsoft Access Reports and Forms)
- Ajax
- jQuery UI

References

Mark Floyd, Network Manager, Sanders Polyfilms, Mark.Floyd@polyfilms.co.uk

Lynda Thomas, Director of Recruitment and Marketing, Aberystwyth University, ltt@aber.ac.uk