Tom Cant BSc (Hons)

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Personal Profile

Enthusiastic with an extreme hard work ethic and a keen interest in the software development industry. Studied for a **BSc** in **Computer Science & Mathematics** at The University of **Sheffield** and attained a **2.1** classification with honours. Very quick learner with natural team lead mindset and ability to work in fast paced team oriented environments, or with initiative when working alone. Honest and reliable who always has a positive attitude towards others and the task at hand.

Education

2006 – 2009: Class 2.1 with honours for Computer Science and Mathematics

2004 – 2006: 3 A-Levels (Maths, Further Maths, Computer Science), 1 AS-Level (Physics)

1999 – 2004: 12 GCSE's, 2 GNVQ's (including Maths, English Lit/Lang, Science, Electronics, Business, I.T.)

Key Skills

- Excellent knowledge of several programming languages including **PHP**, **Java** and **C++**
- Working knowledge of scripting languages such as **JavaScript** (excellent **jQuery**) and **Python**
- Thorough understanding of database technologies including **MySQL**, **PostgreSQL** and **SQL Server**
- Use of web technologies including **HTML**, **CSS** and **XML**
- **Top-down** and **bottom-up** approaches for designing/skeletonising system architectures
- Solid understanding of advanced programmatic concepts including **OOP** and areas of **AI**
- Software **architecture** evangelist; promoter of such concepts as **MVC**, **REST**, separation of concerns
- Ability to rigorously specify functionality in a clear, complete and concise manner
- In depth knowledge of both UNIX/**Linux** CLI and **Windows** based systems

Employment History

Company: NetXtra Ltd.

Position held: Developer   **From** November 2011 **to** Present

Involves developing and maintaining a very broad range of client websites, from small to medium to large organisations in the not-for-profit and membership sectors. Regarded as a "go to" member of a growing team of developers.

Most notably contributed to the company's open-source offering by steering the technology into the path of the Drupal CMF. Worked as a key member of a team to build a platform from which Drupal sites could be built quickly with a set of reusable modules and without compromising on client requirement/specification.

Proudly built the NetXtra company website from the ground up using the company's proprietary CMS. The site now serves as an excellent resource not only from a sales/marketing perspective, but also from the point of view of developers who regard its inner workings as an example of how sites should be built.

Developed website for The Academy of Experts and contributed to the website for The Royal College of Radiologists (going live imminently), both of which are built on the aforementioned Drupal platform. Also contributed to proprietary CMS based websites including Cambridge Network, Equity and British Waterski

& Wakeboard (also going live imminently).

Company: Phoenix London UK Ltd.

Position held: Developer   **From** February 2010 **to** November 2011

Involved designing, developing and maintaining web-based systems using PHP and the Drupal CMF.

In September of 2010 I embarked on an 11 month project working closely with Colchester based company [The New Homes Group](). I designed and developed a system to help streamline the companies business processes and help take the new homes industry to new heights with a feature-full intranet style management system. Capable of tracking all manner of entities from house-builders to properties, estate-agents to customer applications, the system has helped their business save on time and therefore money. I continued to provide regular updates to features and develop the system as an ongoing project during my time at Phoenix.

Also acted as lead developer on several other projects including the development of an e-Commerce product aimed to be used by photographers and artists to showcase their work as a portfolio. My clients have the ability to upload images into galleries and present them as either free or paid-for products. An example can be found at [Sophie Ziegler Photography]().

Other projects worked on include the online presence and content-management/e-Commerce solutions for Suffolk shop [The Shiny Bow](), fashion magazine [i-D Online]() and UK/Dubai aircraft sales company [Viation]().

Company: CORE Development Services Ltd.

Position held: Developer   **From** 2009 **to** February 2010

Involved using PHP to maintain the company intranet and developing bespoke solutions for clients.

Acted as lead developer for the last 3 months of a medium to large sized project involving Colchester based company Paul & Co. Developed a system designed to be used by both office staff and mobile operatives. Consisted of an online web interface for managing and reviewing content, and a mobile phone application to be used remotely for taking photos and sending them back to the office across a secure connection.

Interests

Much of my spare time is consumed by my passion for programming. I enjoy investigating new technologies so as to expand my potential and keep my knowledge fresh. Right now I am exploring a recent addition to web-server technology: [NodeJS](), an event based web-server built entirely in JavaScript.

Computer programming

- Software; problem solving ([Project Euler]()), community participation ([C++ Home]())
- Internet; content management frameworks ([Drupal]()), web applications, the semantic web
- Behaviour based robotics and reactive robot architectures
- Areas of artificial intelligence including two player game engines and pattern/text processing

Mathematics

- Topics in number theory including modular arithmetic and the sought for large primes
- Areas of abstract algebra including group theory and algebraic topology
- Chaos theory and fractals
- The [Clay Mathematics Institute Millennium Prize Problems]() (and in particular [P vs NP]())

Additional Information

- Own a full U.K. driving licence
- Enjoy solving Rubik's cubes of all sizes