

## 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 ability to work as a productive team member or using 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**
- Use of internet/database technologies including **HTML**, **CSS**, **XML** and **SQL** (MySQL)
- A solid understanding of advanced programmatic concepts including **OOP** and areas of **AI**
- A software **architecture** evangelist; promoter of such concepts as **MVC**, **REST**, separation of concerns
- Pride on writing **clean**, easy to understand and easily **maintainable** source code
- In depth knowledge of both UNIX/Linux **CLI** and Windows based systems

### Employment History

**Company:** Phoenix London UK Ltd.

**Position held:** Developer

**From** February 2010 **to** Present

Involves 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 continue to provide regular updates to features and develop the system as an ongoing project.

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.

**Company:** The Crown Inn public house

**Position held:** Bar Person

**From June 2007 to July 2009**

**Company:** Evening Gazette local newspaper

**Position held:** Money Collector

**From June 2003 to July 2006**

## 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](#))

### Music

- Enjoy listening to an extremely diverse range of music from classical to rock to electronic
- Play self-taught guitar and piano in spare time

## Additional Information

- Own a full U.K. driving licence
- Enjoy solving Rubik's cubes of all sizes
- Represented county level clubs in athletics/cross-country events