B I L L Y F L A T M A N

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Technical SKILLS

* **Sun Certified Java Programmer Certification for Java SE 6**
* **Microsoft Certified Technology Specialist Certification for SQL Server 2005**
* Competent with C#, ASP.Net, MVC3, ADO.Net Entity Framework, Python and Django, PHP, JavaScript, HTML5, jQuery, Joomla, Java J2SE, C++, WPF, Objective-C.
* Designing and developing databases using both MS SQL Server (versions 2000, 2005, 2008) and MySQL.
* Writing SQL and stored procedures using T-SQL.
* Confident using \*nix systems from the command line.

Professional AchievEments

**Software Engineer, Sumitomo Electrical Wiring Systems, 2010 – Present.**

Designed and developed a WPF software application, which saved over €3 million to the manufacturing costs of vehicle wiring harnesses. The application implemented a minimum spanning tree algorithm to optimise wire routing and a Genetic Algorithm to evolve best splice positions, as well as allowing engineers to quickly and intuitively make high-level changes to vehicle harness designs. This involved graphically representing and manipulating large amounts of abstract data in a 2D environment.

Developed a company IIS intranet site using MVC 3 framework and making extensive use of jQuery and AJAX. Took a compartmentalised approach to the architecture of the site, ensuring clear separation of layers where possible and making extensive use of stored procedures at the data access layer.

**KTP Associate, Aberystwyth University, 2007 – 2010.**

Worked between Sumitomo and Aberystwyth University, project managing, researching and programming, for a software project using functional reasoning to automate harness design and facilitate design reuse. The data visualisation element of the project was extracted from the main Windows forms application and further developed in Cocoa using XCode, for the purpose of being ported to iPad.

Designed and developed a globally distributed, Windows forms application, to monitor maintenance requirements within the company. The application was fully asynchronous as lag between client and server was an issue. Designed and created databases for the project, allowing for centralised management reports to be generated from many distributed sources. The KTP (Knowledge Transfer Partnership) required me to hold regular LMC (Local management committee) meetings between Sumitomo, Aberystwyth University and a KTP advisor, showing project progress, projections and expenditures.

**Freelance Developer*,* 2006 – 2007.**

Developed web based registration and payment system using ASP .Net, for data backup company Oolio-Online and developed a golf tee booking system for a client of Caboodle Digital using PHP.

**Freelance SEO, 2006 – 2007.**

Working for Caboodle Digital, I optimised their client’s websites to achieve better search engine rankings, the most successful being VO2Maximum. After some research I proposed changing the marketing strategy for the site from ‘Endurance training’ to ‘Triathlon coaching, Kent’ and introduced the keywords at the best frequencies through out the site. Within a couple of months the site was receiving a 300% increase in revenue.

Personal Projects

**Joomla! CMS and SMO**

I developed a website and social media optimisation strategy for a non-profit organisation. A website was required at very short notice, so the Joomla! CMS was used to speed up development, as well as allowing for simple future updates by non-technically minded individuals. Twitter, Facebook, LinkedIn and YouTube accounts were also setup and configured to receive content automatically from the site’s blog, as well as updates from the social media sites being fed back into the website. This approach helps notify changes to the site across a wider audience, as well as keep the site more current and active.

**Python and Django**

I have developed a Betfair horse racing betting-bot using Python and Django. The project has led me to much greater knowledge of Linux from the command line, as well as the Python language and a more granular understanding of web service interactions.

**Android**

After purchasing an Android mobile I investigated the Android development SDK by developing a small workout app for a friend. Having knowledge of Java I found the Android platform a joy to program, especially after experiencing the Objective-C learning curve.

**Java**

I also developed a Java application to analyse stock market prices against a selection of trading rules and to automatically generate buy signals; with the hopes of eventually making a profit through spread betting.

Education

* BSc Computing and Information Systems – Awarded 2:**1**

Swansea Metropolitan University.

* **HND Software Engineering - Completed with Distinctions**

Swansea Metropolitan University.

* **10 GCSEs including Triple Science, Mathematics and English.**

Ffynone House School

Courses And conferences Attended

* **Personal Development and Project Management**
* **Marketing and Effective Communication**
* **Finance and Performance Management**

(Above courses were each residential for six days with ‘Ashornehill’)

* **Microsoft SQL Server 2008 Upgrade Course** (2000 to 2008)
* iPhone Programming at your Fingertips (5 day course at Aberystwyth University)
* **DevWeek 2011 Conference at The Barbican Conference Centre, London**

(Attended talks on mobile deployments using PhoneGap and jQuery Mobile)

* Social Media In-depth Workshop – B2B & B2C (Workshop by Software Alliance Wales)

Objectives

Find a software development position offering challenging projects and with a strong emphasis on best coding practices. I’m really keen to work for a company that uses a TDD approach, or have a strong a focus on Unit Testing; also can offer opportunities for career progression.

hobbies

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| --- | --- | --- |
| * Photography | * Mountain Biking | * Gaming |