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Employment
History

January 2011 – present day BBC - London

ActionScript 3.0 Developer

Building on previous video work at the BBC a custom dynamic Flash caption/template engine was devised and prototyped. The engine and Template builder applications enabled user to create custom video captions and effects and then apply these templates to cue point enabled video streams. This project is due to go live in Oct 2011.

This project also involved me spending 2 months embedded with the IPlayer/Media playout team.

July – December 2010 MacMahon Consulting Basel, Switzerland

ActionScript 3.0 Developer, Project Consultant

Dealing directly with clients, various projects were developed under my own LTD company. As well as coding, these projects were consultancy led and were also account managed by myself. The clients were advised though the projects from conception to delivery.

These included:

- **Swisscom** – As part of a Christmas promotion, Swiss telecoms operator SwissCom commissioned an interactive wishbook. The was built using the licensed 'megazine' API
- **SimonAeby** – A consultancy led Flash Video based website for local Swiss film director Simon Aeby. The highlights of the website are full screen and scale functionality with the goal of providing Simon with a fast eye catching way to showcase his work to film companies.
- **Westlink** – a project to develop a real time data driven feed that powers an AS3 coded solari departure board which shows clients of Westlink the frequency of transport departures from the business complex.
- **Collis** – an interactive flash application that displays the availability of apartments in a new development. As the data is updated the application visually shows the changed status of each apartment.
- **Hauptsache** – A complete website including a showcase Flash video wall was created for a local Swiss Hairdresser. The website was built using a mix of html/css/javascript/jquery and Flash. The Flash videowall generates unique patterns based on a randomisation algorithm.

January 2010 - May 2010 BBC - London

ActionScript 3.0 Developer

Flash developer building various video applications for the BBC news website, these were headline applications for news stories covering 2010 General election and included the 'i'm a PM videowall', the online swingometer, and an interactive timeline showing previous election results accompanied with video.

Other applications developed on this contract were a videowall to tell the Family story of a Dementia sufferer and a similar videowall to tell the story of the Haiti earthquake.

November 2009 - December 2009 GYRO:HSR - London

ActionScript 3.0 Developer

Development of a financial calculator application for a major investment bank. Multilingual data driven application using XML and parsing Excel CVS files.

July 2009 - September 2009 BBC - London

ActionScript 3.0 Developer

- Flash developer working on a live broadcast multiscreen videowall for a new high profile BBC political website due for launch September 09.
- Developed using Flex Builder, Perforce, utilising Ant Builds and Bamboo server in a fast paced Agile environment.
- Coded and optimised to meet stringent performance objectives using AS3.0 and the OpenVideoPlayer/Akamai Connection and Stream classes.

Oct 2008 - June 2009 Guardian Professional - London

ActionScript 3.0 Developer

Lead Flash developer working on a project to build a YouTube/iPlayer style media player for Kew Gardens. The media player allows the general public seamless access to images/audio/slideshows and video from the Kew media asset repository using one media player.

The player offers similar search and display functionality to the BBC iPlayer and YouTube.

- Lead Flash developer on Kew Gardens 'www.greatplanthunt.org' flash website.
- Part of a team developing educational games for EDF energy sponsored 'www.jointhepod.org' website.
- Lead developer for an online image gallery shown at Tate Modern.
- Development of a custom Flash video component and caption engine.
- Working closely with designers and web developers.
Projects developed using AS3.0, XML, PHP.
- Coded using MVC and Singleton design patterns.
- All code/animation scripted non-timeline using FlashDevelop.
- Use of source control subversion client Tortoise SVN.
- All Flash projects designed to be JAWS screen reader Accessible.
- Experience working to an agile development process.
- Managing requirements and content standards of remote code suppliers.

2004 - 2008 Healthcare learning company - London

Senior Flash ActionScript Developer

- Senior ActionScript Developer for an award winning healthcare company.
- Development of dynamic XML driven Flash template engine.
- All projects developed using XML/Object Oriented approach.
- Multilingual Flash platform development for Phillips European marketing.
- R&D and project management of an iPhone mobile platform development using iPhone SDK.
- Custom Flash Video implementation.
- High level usability and process implementation into projects.
- Developing a statistical Flash charting API component.
- Team leading responsibility including mentoring junior staff.
- Client facing and product technical support.

1999-2004 Epic Group PLC - Brighton

MultiMedia Developer

- MultiMedia developer/designer, incorporating Flash across company projects.
- Client facing, technical documents, content solutions using Flash MX, XML.
- Website layouts designed and produced using Adobe Photoshop.
- Digital video/audio production and editing using Adobe Premiere.
- Actionscript based animations and learning simulations for e-government.
- Use of a script-to-screen development process.
- Senior Programmer using Icon Author. Responsible for client liaison, technical solutions, software architecture/testing.
- 5 years experience with the UK's leading e-learning company.

Skills

AS3.0 - AS2.0, XML, AMFPHP, Flex Builder, FlashDevelop, SVN, Perforce, UML, C++, Java, MySQL, Unix, Object Oriented Development, Design Patterns, Adobe Photoshop, Adobe Premiere, Sound Forge

Education

2007 - 2009 University of Westminster

MSc Software Engineering

Major project: GeoReporter - Java ME based GPS Mobile reporting application and backend task delegation system.

2004 - 2005 Self Study

Certified Macromedia Flash MX Developer

1996 - 1999 Swansea Institute of Higher Education

BSc (Hons) in MultiMedia (2.1)

Other qualifications:

7 GCSEs, 1 A-Level, BTEC Diploma in Photography

References On request

Personal statement

Over the past 12 years I have worked for two of the largest and most successful e-learning companies in the UK, and recently have worked for the BBC and *The Guardian*, I have worked on projects for different types of organisations from the RAF and the European Space Agency to household names such as Barclays Bank, Kew Gardens, B&Q and Royal Mail.

Having initially worked as a multimedia designer and developer where my responsibilities included HTML web development, video editing and production, through to animation and design, I have also gained team leading skills as a result of having responsibility for mentoring some of the more junior members of the team.

For the past 6 years I have focused solely on programming. This has been an interesting transition as it has enabled me to look at all aspects in the production of software products and projects.

Graduating in 2009 I was also studying part-time for an MSc in Software Engineering. Using languages such as Java and C++ have assisted greatly in how I analytically approach complex systems and coding solutions. Other modules studied on the MSc include:

- Databases using Oracle and MySQL;
- Systems Architecture;
- Object Oriented Programming using Java and C++;
- Data structures and Algorithms; and
- Design Patterns

I have been able to apply these skills to projects that I have work for The Guardian and the BBC. The use of these languages has enabled me to implement higher-level languages on different development platforms, such as the iPhone SDK as well as also starting the developing a geographical based mobile reporting tool for the MSc major project. The masters degree, whilst being challenging, has also been rewarding and has opened up other areas of personal interest such as the Adobe Air and Flex platforms.

From 2010 I have been working more directly with clients in a consultancy capacity driving projects from the initial ideas phase to complete delivery offering a more holistic solution.

Portfolio urls

MacMahon Consulting

Swisscom wishbook

http://www.bluewin.ch/de/index.php/1589/?campID=src_wunsche

Simon Aeby

<http://www.simonaeby.com/>

Westlink

<http://www.westlink.ch/>

Collis

<http://www.collis.ch/wohnungen/wohnungenpreise.html>

Hauptsache

<http://www.hauptsache.ch/2010/>

BBC

'If I were Prime Minister'

http://news.bbc.co.uk/2/hi/uk_news/politics/election_2010/8602143.stm

Election Swingometer

http://news.bbc.co.uk/2/hi/uk_news/politics/election_2010/8574653.stm

Election Seat calculator

http://news.bbc.co.uk/2/hi/uk_news/politics/election_2010/8609989.stm

Election results through time

http://news.bbc.co.uk/2/hi/uk_news/politics/election_2010/8654338.stm

Superpowers: Visualising the internet

<http://news.bbc.co.uk/2/hi/technology/8552410.stm>

Dementia: A family's story

<http://news.bbc.co.uk/2/hi/health/8491946.stm>

Democracy Live

<http://news.bbc.co.uk/democracylive/hi/>

Gyro:HSR

Fortis investments calculator

<http://www.tfccalculator.bnpparibas-ip.com/en/Calculator.html>

Guardian Professional

The GreatplantHunt

<http://www.greatplanthunt.org/>

Online Flash Gallery

<http://www.jointhepod.org/gallery/>

The Big school warm up

<http://www.jointhepod.org/get-going/energy/the-big-school-warm-up/interactive-example>

The heat is on

<http://www.jointhepod.org/get-going/energy/the-heat-is-on/interactive-example>

Healthcare learning company (various demo links to projects)

http://www.healthcare-learning.com/products_products.php