DomCharlesworth
Technical Lead & Software Engineer

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skills

★ ★ ★ ★ ★

JavaScript, Ruby, C++
Perl, RegExp, ELisp,
Bash, Json, SASS,
CSS3 & HTML5

★ ★ ★

Java, XML, PHP
Clojure, Matlab
Python, Rust & LaTeX

★ ★ ★

SQL, C#

tools

IntelliJ, Eclipse,
Sublime, Atom,
Emacs, Vim,
Unix, Linux,
Grunt, Maven,
Git, SVN,
Jenkins, AWS

languages

English (Native)
Spanish (Basic)
French (Basic)

Profile

An ambitious, enthusiastic and technically creative individual with a strong focus on contributing and collaborating on innovative ideas that make development fun and simple. Possessing a deep understanding of modern web development, tooling and project management techniques combined with a thirst for constant improvement, I strive to help teams to develop great features whilst focusing on improving delivery and technical approaches maintaining the freedom to innovate. I have a proven record of delivering world class products to hard deadlines.

Education

2009–2013	**BSc** Mathematics (Hons)	University of Bath
	Degree Classification: 1st	
2008–2009	**AAAB** at A Level **A** at AS Level	The Ecclesbourne School Sixth Form
	Qualifications in: Further Mathematics, Mathematics, Computing, Physics & Design Technology	
2001–2008	**7A***s, **2A**s & **B** at GCSE Level	The Ecclesbourne School
	Including: Mathematics, Science and English at A*	

Experience

2013–Now   **B B C** Digital   Media City UK, Manchester

Tech Lead & Software Engineer

Worked closely with product managers, business analysts and testers to develop and deliver the BBC Sport IPTV application before becoming a crew technical lead as part of the Digital Platform :

• Drove the adoption of a micro application style architecture where applications can be composed of consistent feature 'scenes' without the need for reintegration. (*JavaScript, CSS3, Java*)

• Migrated platform applications from Forge to AWS. (*Forge, AWS*)

• Reduced the loading time of deep linking into the BBC Sport IPTV application by 50%. (*JavaScript, Java*)

• Introduced a new service driven design architecture with my team, that was adopted by platform to create data driven configurable applications. (*JavaScript, Java*)

• Lead both BBC News & Sport teams in integrating a new core Media Player, managing the delivery of the project and regression across over 100 devices without issue. (*JavaScript*)

• Lead the development of an updated Media Play-out experience for the BBC Sport IPTV application including: variable seek speed, an adaptive Flat UI player menu, instant highlights of live streams and access to related content. (*JavaScript, CSS3, Java*)

• One of the leading developers in the creation and adoption of a platform wide set of reusable, styled User Interface widgets known as Biscuits, leading to a consistent user experience and design across all BBC IPTV applications including iPlayer & BBC News. (*JavaScript, CSS3*)

• Integral part of delivering the BBC Sport IPTV application for the 2014 Sochi Winter Olympics, Brazil Fifa World Cup, Glasgow Commonwealth Games and Wimbledon on over 550 devices - including Sony Playstation 4 - reaching 650k+ unique users per week. (*JavaScript, CSS3, Java*)

• Successfully produced a utility for more accurate *Text Truncation* that worked on any IPTV device, solving a two year problem. (*JavaScript*)

• Set up dedicated *Continuous Integration* Hudson servers facilitating earlier integration of our Service and Client side apps, resulting in weekly releases over the previous monthly releases. (*PHP, Hudson, Grunt, Linux*)

• Designed and built an extensible *Dashing* framework of configurable widgets for live and pipeline monitoring. Including version information on environments, build status of Hudson jobs and count downs to releases. (*CoffeeScript, Ruby, Sass*)

• Integrated a new statistics tracking service providing live *Real User Monitoring*. (*JavaScript*)

• Created utility to source RPM packages for application components to produce deployment tickets. As a result, time to create release tickets was reduced from 45+ to 3 minutes. (*PHP*)

2011–2012	**Delcam plc.**	Small Heath, Birmingham

Undergraduate Software Engineer

Completed a year rotating around the Company as part of their *Graduate Scheme*, working on each of their industry leading products for a few months each :

- Helped build an automated testing system that distributed tests to idle machines, reduced the run time of a full test suite from 35+ hours to less than 7. *(Perl)*

- Delivered feature that enabled dimensioning of primitive shapes (circle radius, line length, arc radius, edge angle etc.) to be drawn on 3D models and resized. *(C#)*

- Designed and built an automation application to distribute pre-manufacturing jobs to any idle software instance on the network. *(C#, WPF)*

- Performed large refactor and reorganisation of code to allow dynamic application of point distribution methods to lines and arcs to produce more accurate tool-paths. *(C++)*

- Implemented feature that calculated whether a link between tool path start and end points had already been machined to allow rapid tool movement, improving manufacture time. *(C++)*

2010	**NHS Macklin Street Surgery**	Macklin Street, Derby

Systems Record Input

Contracted to manage a 12 month backlog of confidential patient data that needed to be accurately processed and stored into a new patient record system called *SystmOne*.

Work Experience

University *of* Derby

Designed and built a simple game in *GameMaker: Studio* and held an introductory course lecture for students as an introduction to the software.

Rolls-Royce *plc.*

Set up temperature survey of a CNC milling to alert users of high temperatures to prevent tool damage.
Assisted in creating 3D surface models of fan blades for tolerance checking and manufacture refinement.

Communication Skills

2013	**Oral Presentation - Viva**	University of Bath

Presented the research I conducted for my final year academic project paper *Improved Modular GCD Algorithm using Irreducible Trinomials*.

Interests

Professional: 3D graphics technology, geometric mathematics, algorithms, web design, web app creation, software design, programming, tooling, monitoring, emacs and optimisation. **Personal:** Traveling, swimming, guitar, gaming and cooking.

I have a lot of personal projects I have worked on demonstrating some of my professional interests on my personal website **domcharlesworth.co.uk** .