DomCharlesworth

Software Engineer

contact

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skills

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

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

★ ★ ★
SQL, C#

tools

IntelliJ, Eclipse,
Sublime, Atom, Brackets,
Emacs, Vim, Unix, Linux
Git & GitHub, SVN,
Hudson, Jenkins, AWS

languages

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

education

2009–2013	**BSc** Mathematics (Hons)	The 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	**BBC Future Media**	Media City UK, Manchester

Software Engineer

Developer as part of the Future Media & IPTV Platform team :

● Drove the adoption of a micro application style archietcutre where multiple applications (iPlayer, News, Sport) could reuse the same features without the need for reintegration into their applications. *(JavaScript, CSS3, Java)*

● Lead both the News & Sport teams in integrating a new Media Player into the applications managing the delivery and progression of the project *(JavaScript, CSS3, Java)*

● Lead the development of an updated Media Playout 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 reusable set of styled User Interface widgets known as Biscuits, leading to a consistent user experience & 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 Common Wealth Games and Wimbledon on over 550 devices - including Sony Playstation 4 - reaching 650k+ unique users per week *(JavaScript, CSS3, Java)*

● Set up dedicated *Continuous Integration* Hudson servers and improved the teams usage of the environment facilitating earlier integration of our Service and Client side apps, resulting in weekly releases with added confidence through the use of various pre & post building checks - validity scripts, test results & minification - I implemented *(PHP, Hudson, Grunt, Linux)*

● Designed and built an extensible *Dashing* framework of configurable widgets for use by the platform that acted as a build monitor for developers providing product version numbers across environments, build status of Hudson jobs and countdowns to the stages of the release pipeline. *(CoffeeScript, Ruby, Sass)*

● Integrated a new statistics tracking service which provided live *Real User Monitoring* *(JavaScript)*

● Created utility application to source RPM numbers for each application component and produce deployment tickets from multiple build jobs across multiple servers. As a result, time to create these 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* :

● Designed and delivered an automation application to distribute pre-manufacturing jobs to software instances on machines across the client's intranet *(C#, WPF)*

● Helped build an automated distributive testing system that reduced the run time of a full test suite from 35+ hours to less than 7 hours *(Perl)*

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

Computer Systems Analyst

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 *SystmOne*

work experience

University *of* Derby

Designed and built a simple game in *GameMaker: Studio* and held lectures to students as an introduction to the course

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

open source

A list of open source projects I have contributed to

interests

professional: 3D graphics technology, geometrical mathematics, algorithms, web design, web app creation, software design, programming and tooling **personal:** running, swimming, guitar, gaming, cooking,