

Iain Johnston

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Education

Cardiff University	Cardiff
<i>Computer Science with Year in Industry (BSc)</i>	<i>2013–present</i>
Current overall grade: 1st	
Selected Previous Modules:	<i>Grade</i>
Communication Networks and Pervasive Computing:	<i>91</i>
Algorithms and Data Structures:	<i>83</i>
Artificial Intelligence:	<i>62</i>
Security:	<i>71</i>
Combinatorial Optimisation:	<i>88</i>
Advanced Programming:	<i>89</i>

Experience

Web Development.....

BBC News **London**
Trainee Web Developer *Aug 2015–present*

I have been working on the BBC News website, taking part in a wide array of projects, learning new technologies and developing my teamwork and leadership skills, whilst also trying to produce an accessible and beautiful user experience.

Achievements and Projects:

- Topic Pages:
 - Using the BBC's semantically linked data platform my team created pages that can be automatically updated when a new story is published and tagged with a certain topic.
- Front Page rebuild:
 - Built with NodeJS and React out of composable components that are shared across News, Sport, Live, Weather and others.
 - Attempting to improve the performance and accessibility of the site.
- Framework for creating animated GIFs for Social Media
 - Born out of an Elections 2016 hackday I took 3 weeks out from my main team to create a framework for journalists to create animated GIFs for social media.
 - The tool allows a journalist to take multiple static images and overlay text and polygons to create an animated GIF of a story.
 - Built as a single page web app with HTML5 Canvas elements, minimal CSS and a JavaScript library to create the GIFs.

Programming Languages

JavaScript: Proficient *Good knowledge of language itself and many of it's dependencies for large projects such as build systems and package managers*

Java: Proficient *Many projects and University courseworks undertaken, and a good knowledge of data structures and object oriented design principles*

Python: Proficient *Many small projects/scripts created and more complex programs built.*

CSS: Proficient *Good vanilla CSS knowledge and also good knowledge of SASS*

React: Proficient *Work building re-usable and high quality components, with data handling and processing*

PHP: Proficient *Experience with PHP in a large application and design styles in PHP*

General computer skills and knowledge

UNIX/Linux: Good understanding of UNIX-based operating systems and experience working with all major OSes

Bash: Good knowledge of bash scripting and it's uses

Optimisation: Interest in optimisation problems and finding ways to solve them efficiently

Languages

English: Fluent *First language*

Spanish: Fluent *Second language*

French: Conversational

Interests

Sports: I am an avid boulderer and climb at least once or twice a week. I also cycle and hike as much as possible.

Music: I have been playing the bass guitar for around 6 years and have played live on multiple occasions

Technology: I am passionate about how technology can be used to improve our lives such as how data mining and machine learning could improve healthcare.

References available upon request