BEN ELGAR

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EDUCATION

University of Bristol

October 2012 - June 2016

Computer Science - Predicted 1st Class Honours Degree

- Elected President of the Computer Science Society and Course Representative by my peers
- Covers theory of systems design including requirements and configuration management
- Selected a big data project to provide a cloud-based data analysis platform for a client
- Elected to take modules in both Machine Learning and Artificial Intelligence in third year

Jerudong International School, Brunei

June 2001 – June 2012

Primary & Secondary School

A Levels:	Maths	A	GCSEs:	5 A*s, 4 As, 1 B		
	Further Maths	A		(Including English, Maths,		
	Computing	A		three Sciences and French)		
	Physics	A				
	Chemistry	В				

EMPLOYMENT & EXPERIENCE

CPD for Teachers, Bristol, UK

May 2013 - Present

Programming & Robotics Instructor and Lead Web Developer

- Work as instructor, content creator and lead web developer
- Teach school teachers to use Raspberry Pi, programming and robotics in the classroom
- Built website involving mass emailing, booking system and e-commerce
- Led a remote team of professional software developers
- Utilised many different technologies including PHP, Laravel, jQuery, D3 and Knockout

Jerudong International School, Brunei

Nov 2011 – June 2012

Lead Programmer and Web Developer

- Created a parent-teacher interview scheduling system to resolve timetable clashes
- Utilised technologies including ASP.NET, VB.NET, CSS, HTML, SQL and JavaScript
- Learnt to find out what a client wants and to deliver a project on time

RoboCircle, Brunei

September 2011 - October 2011

Robotics Instructor

- Taught robotics workshop open to the general public
- Variety of students from young children to secondary school computing teachers
- Created different tasks to challenge all students utilising the Raspberry Pi and Python

Web Developer

- Designed numerous websites of varying complexity for the school
- Sometimes worked as leader of a team with a designer and a content creator
- Sometimes worked on my own designing and implementing everything
- Learnt to distinguish between tasks best completed by myself and those that would be aided by a team

SKILLS

	Skill	Comments	Ability		
Programming Languages	PHP	Includes use of MVC frameworks such as Laravel	****		
	С	Used for majority of coursework assignments and	* * * \$ \$		
		* * * * * *			
	Python	Used for many personal and robotics projects along	g		
		with coursework assignments including a multi-	* * * * ☆		
		threaded particle simulator			
	Java	Implemented a parser and a compiler and built several small games	****		
	JavaScript	Implemented core functionality for teaching website			
		using D3, Sass, jQuery, Grunt and Knockout	****		
	Haskell	skell Implemented interpreter and very basic DBMS			
	VB.NET /	B.NET / Implemented a scheduling system with web interface			
	ASP.NET	ASP.NET for automatically scheduling interviews			
Parallel APIs	OpenMP	Implemented multi-threaded particle simulation using	****		
	MPI	a combination of OpenMP and MPI	****		
	OpenCL	Used with PyOpenCL to implement particle	* * * \$ \$		
		simulation			
Others	Experience with database management systems including MySQL and				
	MongoDB				
	Experience both building and utilising automated and unit tests				
	 Experience with both Bash and zsh scripting Experience with version control systems including Git 				

INTERESTS & HOBBIES

Robotics and Electronics

Enjoy building small robots using the Arduino platform and the Raspberry Pi and experimenting with software defined radio.

Information Security

I regularly attend hackathons and take part in online games and competitions, including in the Wargames offered by OverTheWire.

Physics

I consider myself a keen scientist as well as an engineer and am especially interested in physics. I do my best to keep up to date with the latest developments in the field.