Cameron Ben Isaac Brown

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I value efficiency above all things - I try to be succinct, effective and mindful at all times. I accept that mistakes are part of the learning process, so rather than being discouraged by them, I find them to enthuse my creativity. Of course, in the light of perfection, all things are mistakes - this way of thinking allows me to pursue self improvement without bounds.

Skills

For a full and maintained list of skills, see my linkedin profile uk.linkedin.com/in/oversword

Problem Solving

I'm proficient in both logical and lateral thinking, and can switch between them depending on the nature of the problem at hand.
For me, problem solving is not just about fixing what's broken - it's also about refining and simplifying what already works, analysing the current solution, refactoring to account for potential problems, and making generalisations in order to simplify the problem itself.

Programming

I have experience with various programming and scripting languages, in order of proficiency and preference:
I have a great deal of experience with object oriented and event driven programming, as well as the universal concepts such as inheritance, maintaining scope, regex and recursion.

1. JavaScript
2. PHP
3. Python
4. Bash
5. SQL
6. ActionScript
7. Java

Leadership

I see the "leadership" role as the unifier of the group: instead of forcing people in a direction (leading them) the aim is to join them under a common goal. A leader will succeed if he delegates tasks and sets individual goals, but for it to be enjoyable he must let them delegate their own tasks and set goals for the group. This way a higher level of engagement and quality of work is achieved.

Designing For The Web

I have experience with several modern JS frameworks, including Vue.js and Angular.
I've also worked with the WebSocket protocol to make a reactive single page web application, while working for Simitive.
I can effectively use resources such as GitHub and StackOverflow to avoid "re-inventing the wheel", and am a keen advocate of agile development methodologies, especially when developing for the web.

Education

Degree

2011 - 2014
University of the West of England
Web Design BSc (Hons.) (G452)
Second-class honours, upper division

Higher Education

2004 - 2011
Devonport High School for Boys

Advanced Level
Computing - B
Mathematics - B
Physics - B

GCSE
2A* 3A 2B 3C

Work

Professional Projects

Most recently, I worked for Simitive for over a year, making and supporting a variety of web applications for a multitude of large and small clients. In modern projects, we used the Symfony Framework with Vue.js on the front end, managed with WebPack and NPM. I also supported the legacy projects, based on Drupal 7.
Unfortunately all of Simitive's software is behind a login page, so no examples can be shown.

Previously, I worked for Strategy Com Inc. for two years, one as a contractor, one as an employee. While working for Strategy Com I was responsible for the back and front-end functionality of all the websites and other digital projects. We primarily used the Sonata Project, built on the Symfony Framework for PHP, which uses a detailed MVC setup, along with Composer for third party software.

W12 Conference App
A scheduling app for Android and iOS
Using Cordova, Ionic & Angular, this is the first App I've published, and only the second I made. It uses Taffy DB to create an offline database, and uses Sonata on the back end to deliver an extremely liberal API, using the form:
/table/field=filter&linked_object.field>123/field=ASC&linked_object.field=DESC/linked_object=eager/

For All Our Wellbeing
A user oriented content system for a health organisation
Much of the system is behind a user login, it re-works the security features in Sonata to give users and groups access to different levels of content, and to catalogue that content in a 'briefcase' for quick reference. The interface uses the Foundation CSS&JS framework for optimal use over all devices for a grid-based design.

Personal Projects
All URLs mentioned are subdomains of oversword.co.uk

HTMA htma.oversword.co.uk
An indentation based abbreviation of HTML
Hyper Text Mark-up Abbreviation is a way of simplifying HTML and the common structures we tend to build, such as tabs and forms. The system relies on indentation instead of closure to nest elements, and allows liberal, even JSON-like attribute definitions.

NanoNet nanonet.oversword.co.uk
A neural net creator and visualiser
A JavaScript based application for training and visualising standard neural nets. Using a Bootstrap drag-n-drop interface, you can make complex neural nets with a variety of threshold functions, and configure new problems for the nets to solve. You can even watch the net change as it learns.

OutVaders outvaders.oversword.co.uk
A HTML based pixel game engine
Instead of constantly redrawing the canvas, this engine uses HTML directly as pixels, allowing for games to be genuinely interactive from the start (every entity can trigger DOM events), be styled semantically by CSS (including animations), and to be easily programmed with a simple JavaScript framework.
See all projects at oversword.co.uk

Interests

I consider myself a reasonably well rounded person, taking interest in nature and technology, the arts and the sciences, in equal measure.

I enjoy myself most when working with a new technology, most recently I've developed a linux based application for the Leap Motion controller, which allows the computer to recognise a user's hands in 3D. I also own a Raspberry Pi which I've set up as a LAN server, and written a program for the PiGlow which uses the lights to display system, memory and network load.

Programming is my passion because it combines limitless creativity with complex problem solving - it keeps my mind active while being physically productive.

Looking toward the future I'm fascinated by the way technology could become integrated with biology, and many of my personal projects explore this idea in some sense.

References
Available upon request