Gideon Matthew William Jones

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    I am a creative and technically minded software engineer, with a passion for combining these two traits to find solutions to problems and develop new approaches/ideas. Open to opportunity and excited by the latest technology, I am interested in web and Android applications, computer vision and graphics.

Skills and Achievements

- Strong JavaScript skills.
  - Experience of using vanilla ES5 and ES6 to develop large, complex applications effectively.
  - Strong Angular 1 experience for with architecting and developing data-heavy, single-page application utilising UI routing, RESTful API and local data interaction (using NeDB).

- Other auxillary front-end abilities
  - Skills with using popular libraries, such as Lodash, jQuery, NeDb and Electron.
  - Strong HTML skills writing efficient, semantic, markup, including HTML5 experience.
  - Experience with HTML5 canvas in both two and three dimensional contexts.
  - Knowledge of UX, usability and accessibility principals.
  - CSS and SASS with styling frameworks such as Bootstrap and Foundation.
  - Experience with linting tools and with unit testing to ensure code quality.

- Front-end dev-ops experience:
  - Usage of NPM, Shrinkwrap and Bower for dependency management.
  - Webpack and Gulp for build/development process automation both locally and with Jenkins.
  - Knowledge of web application efficiency methods such as minification and compression.

- Some experience with web back-end:
  - Utilising a VPS to serve multiple websites using Docker, Lighttpd and Nginx and providing other services like FTP and status monitoring using VSFTP and netstat respectively.
  - Some experience with frameworks like Ruby on Rails, Wordpress, Django, Anchor and Ghost.

- Experience with other technologies:
  - Java and Android development developed through university final year project building an app to visualise the acrobatic flight of aircraft using low-level graphics APIs (OpenGL ES) as well as an interest in rooting and custom ROMs.
  - C skills developed through university and industrial year projects.
  - Famliarity with both Linux (Ubuntu, Fedora, Raspbian) and Windows environments.
  - Git skills with utilising branches, subtrees and remote repository systems like GitHub, Bitbucket and Gerrit stack for code management and reviews.

- Sub-team leadership skills:
  - Delivering high quality work and delegating suitably.
  - Sharing and using domain knowledge of team members effectively.
  - Finding issues quickly, exploring possibilities and providing realistic estimates in an agile environment.

- Teamwork skills through group projects, based on both software development and other subjects.
  - Working as part groups of teams both large and small during extensive university projects.
  - Operating as member of an operational team during industrial year, communicating effectively and frequently to meet deadlines for data requests and software completion.

Employment

Current 2015-08	**BAE Systems Applied Intelligence**, Leeds.
	Software engineer: working on a large project since its beginning as a developer (and later a member of the senior dev team) and sub-team leader, developing an extensive data-heavy reviewing system to be used offline and online built using web technologies wrapped in an application environment.
	Plymouth Marine Laboratory, Plymouth.
2014-08 2013-07	**Software developer:** working as part of the remote sensing group, responsible for the processing and delivering standard-compliant data, maintenance of a large code base and development of multiple applications, including a web tool for the visualisation of earth-observation data, conversion of NASA-formatted data and a dynamic application form.
2015, 2011	**Aberystwyth University**, Aberystwyth.
	Demonstrator: aiding students by explaining and offering advice on various courses, including Java worksheets, building interactive web applications, and helping them develop an understanding of the the UNIX command line interface.
	Ambassador: showing prospective students around campus and the computer science department, communicating my experiences and answering questions.

Education

2015 2011	**Aberystwyth University**, Aberystwyth.
	BSc Honours: Computer Graphics, Vision and Games with Industrial Year (First Class Honours).

- Server and client web programming (1st).
- User-centred design and human-computer interaction (1st).
- Image processing (1st).
- Software design patterns and development (1st).

Other activites: Student representative for three years, active photography society member.

2009-2011	**Audenshaw School (sixth form)**, Audenshaw.
	A-levels: Maths (A), physics (B), French (C), art (A*). **Other activities:** photographer for the college journal.
2009 2001	**Trinity Independent Christian School**, Stalybridge.
	GCSEs: two A*s and seven As, including maths (A), art (A*), graphics (A) and English (A*/A). **Other activities:** aid work in Romania helping provide water for a disadvantaged population.

Interests

I have a great interest in bicycles as a means of recreation, a method of transport and a sport. Primarily I enjoy fixed gear cycling, but I also enjoy road bikes too, and have built all of my bikes myself from parts. I share my passion for cycling by participating in the cycling scene Yorkshire offers with riding with a few groups, building bikes and following the progress of athletes and participating in a few events myself.

Photography is something which interests me on both a creative and technical level. From being a large part of my A levels in both art and physics (investigative optics projects) to being a member of the photography society in university, I have developed skills, knowledge and a large catalogue of photography.

During my industrial year spent working with processing satellite data for environmental research, I developed an intrigue in those subjects through attending various talks by scientists. I regularly attend environmental talks at University of Leeds and follow the progress of the space industry.

Having studied the French language at A level, I find having some knowledge of another language and culture both useful and interesting, so I try to keep my skills up to date.