

Dougal Matthews

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I am a hard working highly motivated open source developer with proven skills in software design and development. I enjoy working within a team and providing a technical lead. With a wide range of skills in web development I have worked in a number of different projects with small start-ups to traditional well established companies. I am interested in finding new challenges and interesting positions where I can develop innovating and successful solutions. I also enjoy a highly active social life, skiing and travelling when I get a chance.

Education

Year	Educational Establishment	Qualification	Result
2007-2009	Edinburgh Napier University	MSc Advanced Software Engineering	pass
2005-2007	Edinburgh Napier University	BSc (Hons) Software Technology	2:1

Notable Academic Projects and Open Source

For my Masters dissertation I worked on machine learning and successfully created a learning system that was able to improve its performance at playing the board game Mancala over time. The study compared implementations using MiniMax, Evolutionary Algorithms, Neural Networks and Ant Colony Optimisation. This project was written fully in Python and made use of concurrency and distributed programming to improve performance.

In my undergraduate project I created an interface for phpMyAdmin, a highly popular open source database management system written in PHP. This project was one of the earlier and cutting edge examples of using JavaScript to create dynamic and engaging interfaces. It was featured on websites such as ajaxian.com

I am a avid open source developer. I often contribute to open source projects, including Django and a number of smaller projects. I have released a number of my own open projects, many of these are visible of my GitHub account. I try to make an open source contribution each day, my progress can be tracked at www.calendaraboutnothing.com/~d0ugal

Key Skills

Languages/Markup	Database Systems	Technologies/Frameworks
Python (4 years)	PostgreSQL (3.5 years)	Django (3.5 years)
JavaScript (5 years)	mySQL (4 years)	SQLAlchemy (2 years)
Java (1 year)	MongoDb (1 year)	
ObjectiveC (1 year)	Redis (1 year)	
PHP (5 years)	Solr (1 year)	
XHTML, XML and CSS (8 years)		

Conferences and Training

EuroPython 2011 (Florence, IT)	EuroPython 2009 (Birmingham, UK)
EuroPython 2010 (Birmingham, UK)	EuroDjangoCon 2009 (Prague, CZ)
DjangoCon.eu 2010 (Berlin, DE)	Microsoft Visual Studio Conference 2005 (Edinburgh, UK)

Community Involvement

I co-founded the Python Edinburgh user group in Edinburgh which has been running for over two years now. With the group I have also successfully organised a number of small events including talks and coding sprints. I also try to attend and get involved with any user groups in the local area.

Experience

Working as a independent contractor and consultant I have been fortunate enough to work on a number of different projects for a very wide range of clients. Following is a list of some of the key projects.

Date	Company	Duties Description
Feb 12 - Present	Root Creative	At Root Creative I am responsible for creating the technical design and implementation of a number of iPhone (ObjectiveC) and Android (Java) with a Python backend system. Essentially the work is to create a CMS backed iPhone and Android app but rather than a typical website the work spans over a number of very different and interesting platforms.
Nov 11 - Jan 12	ALISS - long term alliance scotland	Work with Django, Python, MongoDB, Redis, Solr and other related projects for ALISS project - an Scottish NHS backed project. I worked across most areas in this project and added both an analytics framework and a notification framework to be used as the service scales in the future.
Oct 11 - Jan 12	QueryClick	Python development working a high throughput web scraper utilising Amazon Web Services, Tor and complex threading and concurrency processes.
May 11 - Oct 11	Pitchup	Python development of the leading Campsite website in the UK. I joined PitchUp to help add a number of key features for the 2011 summer season while helping with scalability problems and issues.
09/2010 - 07/2011	Aviva plc	Django and Python development working on a number of Aviva's websites front facing high profile websites including www.rac.co.uk . I was involved in a number of large projects and led development of the highest traffic and most visible website under Aviva's control at the time; www.rac.co.uk .
Sept 09 - Sept 10	Loopo Ltd	Django and Python development working on Zinc Medical Recruitment, A medical trainee recruitment system used by medical schools and colleges in England and Wales. This highly complicated Django project handled applications from thousands of students in a very short window of very complicated dynamically generated and modified forms.
Nov 09 - Dec 09	Aware Monitoring	Development working on awaremonitoring.com for Viisys Ltd. The work involved Python, Django, RabbitMQ, Celery, jQuery, mySQL. I was involved in creating an initial version of their distributed speed monitoring services.
Feb 09 - Sept 09	Mobilis Performance	Django and Python development of an online self diagnosis physiotherapist startup. Implementing a complex self help system with demonstration videos, history tracking and advice.
Jan 09 - May 09	Landmarts	Python (Django) development for an startup property and land website that aimed to revolutionise the property market. The website included implementations of various unique features in this market area. Featuring a very sophisticated backend and a dynamic front end with a rich JavaScript interface.
Feb 08 - Sept 08	XCalibre Communications	I joined XCalibre to join their development team doing Java and PHP development. I worked on the internals of their successful Flexiscale cloud platform and customer control panel - used both for Flexiscale and traditional hosting.
Aug 07 - Jan 08	1576 Advertising	Working for 1576 I was involved in making a number of websites for local companies in and around Edinburgh. One of the larger sites involved me undertaking the full design and implementation of a bespoke website used by the Hunters Estate agents (www.hunters-residential.co.uk).
May 07 - Aug 07	Zero Design Ltd.	Object Oriented Training - I was brought in to Zero design after doing development work for them to provide training and help some of their staff to understand and use Object Oriented techniques. This centred around using the different object models in PHP and JavaScript.

References and Recommendations

Written and verbal references and recommendations are available on request. A number can also be viewed on my LinkedIn profile. www.linkedin.com/in/d0ugal