Dougal Matthews

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I am a motivated Python developer who is passionate about creating high quality and well tested software. My aim is to work for an innovate company which offers stimulating and rewarding challenges.

Education

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

Technology

Whilst primarily a Python developer, I know when to use the right tool for the job and I have commercial experience working in other languages including JavaScript, Ruby, Java, and Objective-C. I have also experimented with a handful of languages in my side projects and in my spare time.

Working with interesting data is fascinating to me and consequently I work with a number of different datastores and message queues. I have heavily used PostgreSQL, ElasticSearch, Memcache, MongoDB, MySQL, RabbitMQ and Redis.

Community Involvement

In 2010 I co-founded the Python Edinburgh user group and founded the Python Glasgow user group in 2013. These groups have given me the opportunity to successfully organise a number of events including talks, coding sprints and code dojos. I also have attended a number of other user groups.

I regularly attend conferences and in particular EuroPython, DjangoCon and PyConUK. I have also given talks on Python, ElasticSearch and Postgres at EuroPython. In addition I joined the PyConUK organisation committee in 2013.

Experience

Senior Developer at Red Hat
November 2013 - Present
At Red Hat I work on the OpenStack project under the OpenStack management team. Our work is focused towards making OpenStack easier to manage, deploy, upgrade and monitor.

Senior Developer at Artirix Limited
July 2012 - August 2013
At Artirix I am working as a Senior Developer in the Python team. My role involves developing and supporting backend systems that power the Artirix hosted search platform, which involves working on a number of different Python applications primarily with Flask, gevent and Twisted. The service oriented architecture interfaces with a large array of internal services and also a number of databases, search indexes and message queues including ElasticSearch, MySQL, RabbitMQ, MongoDB and Solr.

During my time at Artirix I have been involved in interesting and large scale projects. Some projects performed several million calculations at a time in large map reduce jobs and others stored terabytes of data in ElasticSearch with strict performance requirements and multi datacentre redundancy.

Developer and Consultant at Pacha Solutions Limited
May 2007 - July 2012
For five years I worked under my own consultancy and development limited company. I had the privilege of working with a number of great development teams and on a number of challenging technical problems. My clients ranged from one man startups to large international corporations. I specialised in Python development and specifically with Django or Flask. Follwoing are some of the larger clients and/or projects that I worked on roughly in chronological order from most recent.

ALISS - Long Term Alliance Scotland
During my time working on the ALISS project I used a server stack consisting of Django, Python, PostgreSQL, MongoDB, Redis, Solr and related python packages. This is an open source project backed by the Scottish NHS. My role involved me working on an analytics and notification framework to be used as the service scales in the future.

QueryClick
The work with QueryClick involved Python development working on a high throughput web scraper which utilised Amazon Web Services, Tor and Twisted for concurrency processes. This scraper was used for analytics and analysis of website SEO performance. Django is used to create the web UI.

PitchUp
I carried out Python development for the leading campsite directory in the UK. I was involved in adding key features for the 2011 summer season whilst helping with scalability problems. PitchUp is a complex Django website with a rapidly growing user base.

Aviva PLC
While working with Aviva I carried out Python development on a number of front facing and high profile websites including www.rac.co.uk. During this time I contributed to a number of large projects and I led development on the highest traffic and most visible website under Aviva's control at the time. This project involved dealing with large traffic spikes and GIS work with GeoDjango and PostgreSQL to perform complex location specific searches.

Loopo Limited
At Loopo I worked on Zinc Medical Recruitment, a Python and Django medical trainee recruitment system used by medical schools in the UK. The project handled applications from thousands of students in a short time window and dealt with a very flexible data model and application process.

Other Clients
While working under Pacha solutions I was able to offer security consulting and training in programming fundamentals or object oriented design and development. A number of digital agencies also used my services including Zero Design Ltd, Tsuko, 1576 Advertising and Digital Engine. These roles involved a full range of web development skills from the front end to back end systems and offered insight into a number of different industries and their specific requirements.

Junior Part Time Developer - XCalibre Communications
February 2008 - September 2008
I joined the XCalibre development team to work on internal systems in Java and PHP. I worked on the successful Flexiscale cloud computing platform, customer control panel and portal. I was involved in development on services used internally for monitoring, managing instances and load balancing. This was a part time position that complimented my own freelance work and university studies.

References and Recommendations
Written and verbal references are available on request. A number of public references can be viewed on my LinkedIn profile; www.linkedin.com/in/d0ugal