

Matthew Power

Curriculum Vitae

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Employment

June 2014 **Graduate/Junior Python Developer, Hogarth Worldwide, London.**

– present Worked on the development and maintenance of Zonza, a digital asset management (DAM) system. I worked on a variety of teams and projects, gaining experience with the development, testing, and deployment of Django web applications. Later, I moved into a DevOps function, working on a project to migrate the product from managed hardware to Amazon Web Services. This involved the refactoring and development of new and existing Puppet Modules, usage of the AWS ecosystem, as well as defining and guiding our evolving packaging and CI concerns.

Key achievements:

- Developed a bulk upload tool, which was used as part of the onboarding of two of the highest value clients for the business.
- Worked on identifying and fixing performance and security issues on the platform.
- Migrated the product to AWS, providing a single button deployment of the application.

Core responsibilities:

- Development of new features and functionality, working under an Agile methodology.
- Working with the product team to scope and define acceptance criteria for user stories.
- Deployment of release candidates to integration environments.
- Maintenance of shared internal libraries and code review of pull requests.

Education

2009 – 2013 **Physics, MPhys (Hons), University of Southampton, 2:2.**

2002 – 2009 **A Level, GCSE, St. Clement Danes School, Chorleywood.**

- Physics: **A**
- Maths: **A**
- Chemistry: **A**
- Further Maths: **B**
- GCSEs, 6A*s, 3As, 2Bs

Project

Title *Exploring the INTEGRAL Archive: Period Determination of HMXBs*

Supervisors Prof. P.A. Charles, Prof. A.J. Bird

The project focused on finding periodicities in a number of High Mass X-ray Binary sources, using both Lomb-Scargle spectral analysis and Phase Dispersion Minimisation. This involved numerical analysis with Python, using NumPy and SciPy.

Dissertation

Title *Energy Input into the Upper Atmosphere*

Supervisor Prof. B.S. Lanchester

Experience

- July 2011 **Summer Project**, *University of Southampton*.
8 weeks This was a summer project placement in the Physics department working on a citizen science project on data of the Aurora Borealis.
- June 2010 **Administrator**, *Informatiq Consulting*, Watford.
12 weeks My role involved matching CVs posted on sites such as Monster and Jobsite to a job specification. Also, this included headhunting on LinkedIn.

Programming Languages

- Python Django, APIs, scripting, scientific data analysis, NumPy, SciPy
- Puppet DSL Config mgmt. with the Puppet DSL, structring code to the Profiles and Modules pattern.
- Ruby Puppet custom types, Rspec
- JavaScript Backbone

Technologies

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|-------------|---------------------------------|--------------|-----------------|
| Frameworks | Django, Flask, Falcon | OS | Ubuntu, Fedora |
| Databases | PostgreSQL | Config mgmt. | Puppet, Ansible |
| Cloud | AWS - EC2, S3, CloudFormation | CI | Jenkins, Travis |
| Typesetting | L ^A T _E X | VCS | Git, Github |

Interests

- Humanism Treasurer of the AHS (ahsstudents.org.uk) between 2012-2014, a national umbrella organisation for non-religious students.
On behalf of the British Humanist Association, have attended conventions in Amsterdam and Utrecht for youth humanism.
President of University of Southampton Atheist Society 2012 – 2013 (atheistsoc.susu.org).
Vice President 2011 – 2012, and Secretary 2010 – 2011.
- Sports Sailing and Skiing.
- PC hardware Built my own computer from components, and built machines for friends and family.
- Software Contributions to free & open source software and my own projects
<https://github.com/mthpower>

References

References available on request.