

Matthew Power

Curriculum Vitae

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Employment

- June 2014 – present **Graduate/Junior Developer**, *Hogarth Worldwide*, London.
Worked on the development and maintenance of Zonza, a digital asset management (DAM) system. Gained experience with Python, Django, and PostgreSQL. Zonza is backed by Vidispine, which I worked in detail with. During my first year, I developed a bulk upload tool, and became a maintainer of a number of shared internal libraires. Subsequently, I worked on producing a new reporting system for the application.

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
Description INTEGRAL, the International Gamma Ray Astrophysics Laboratory, is a satellite launched in 2002. Containing four primary instruments, INTEGRAL looks at sources in energy ranges approximately between 5 keV and 10 MeV, from hard X-rays to Gamma rays. The INTEGRAL archive contains data for many sources that have not been fully explored. 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.

Dissertation

- Title *Energy Input into the Upper Atmosphere*
Supervisor Prof. B.S. Lanchester
Description The upper atmosphere is a complicated region, sandwiched between the turbulent dense troposphere beneath and the harshness of the magnetosphere and solar environment above; both regions influence its composition, structure and dynamics. The dissertation explored the interaction between these regions, and described some practical applications.

Experience

July 2011	Summer Project , <i>University of Southampton</i> .
8 weeks	This was a summer project placement in the Physics department working on a citizen science project for data of the Aurora Borealis. This involved manipulation of the data recorded from scientific instruments, moving it from backup tape to computer and processing using MATLAB.
June 2010	Administrator , <i>Informatiq Consulting</i> , 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.
Oct 2007	Shopfloor Assistant , <i>Waitrose</i> , Rickmansworth.
– Sept 2009	Shopfloor Assistant in fruit and veg department. Cross-trained on deli and patisserie counters, and checkout.
July 2008	Placement , <i>Smith's Detection</i> , Watford.
4 weeks	This was a bursary through the Nuffield Foundation. The project used COMSOL to build a model of an ion mobility spectrometer.
June 2006	Placement , <i>BT Openreach</i> , Staines.
1 week	Fibre optic delivery.

Programming Languages

Python	Intermediate	<i>Web development, scripting, scientific data analysis</i>
Javascript	Basic	<i>Web development</i>

Computer Skills

Frameworks	Django, Flask, Falcon	OS	Ubuntu, Arch, Windows
Databases	PostgreSQL	Queues	RabbitMQ & Celery
Typesetting	L ^A T _E X	Cloud	AWS - EC2, S3, Route 53
Source control	Git, Github	Other	Vidispine

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.

Other

- Full and clean driving license.

References

Hogarth Worldwide

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Informatiq Consulting

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Tutor

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